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NATIONAL CLIMATIC CENTER ASHEVILLE NC

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WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)
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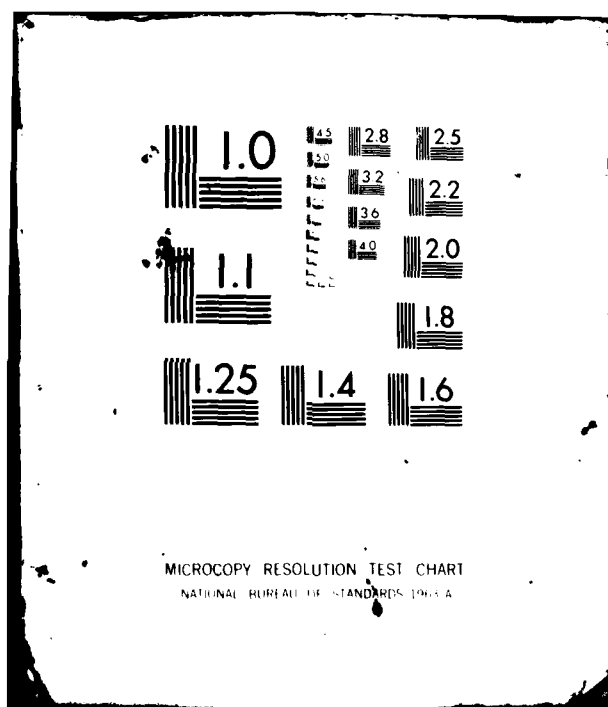
DOT-FA79WAI-057

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UNCLASSIFIED

$$\frac{1}{\Delta t} \left(\frac{\partial u}{\partial t} + \frac{\partial v}{\partial x} + \frac{\partial w}{\partial y} + \frac{\partial p}{\partial z} \right) = \frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} + \frac{\partial^2 w}{\partial z^2}$$

$\Delta_{\text{H}}^{\circ}$



AD A108162

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PR 2-1108113

LEVEL III

12

**WIND - CEILING - VISIBILITY
DATA
AT SELECTED AIRPORTS**

**VOLUME V PART A
CENTRAL REGION**



DISC
2-1108113

DEPARTMENT OF TRANSPORTATION
BUREAU OF AVIATION
WASHINGTON, D.C.

81 12 07 009

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16. Abstract <p>→ This report provides summary tables and graphic wind roses depicting wind direction and speed under specific ceiling - visibility conditions at 283 airports. This data will be used in the application of FAA's establishment criteria for precision and non-precision approach and landing aids.</p> <p>↖</p>			
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WIND-CEILING-VISIBILITY DATA AT SELECTED AIRPORTS

March 1981

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FOREWORD

INTRODUCTION

Summary tables and graphs have been prepared to assist the FAA in the application of establishment criteria for precision and non-precision approach and landing aids. These tables and graphs depict wind direction and speed under specified ceiling and visibility conditions. This report has been prepared by the National Climatic Center for the FAA under Interagency Agreement No. DOT-FA79WAI-057.

Climatological information for selected airports is presented in 11 volumes:

- Volume 1 - New England Region (ANE)
- Volume 2 - Eastern Region (AEA)
- Volume 3 - Southern Region (ASO)
- Volume 4 - Great Lakes Region (AGL)
- Volume 5 - Central Region (ACE)
- Volume 6 - Southwest Region (ASW)
- Volume 7 - Rocky Mountain Region (ARM)
- Volume 8 - Northwest Region (ANW)
- Volume 9 - Western Region (AWE)
- Volume 10 - Alaskan and Pacific Regions (AAL and APC)
- Volume 11 - Visibility Time Series for Key Stations

Summary tables and graphs are presented in volumes 1-10. Graphical time series of visibility measurements for key stations throughout the United States are presented in volume 11 to give the reader some insight into the climate variability that can be expected.

ELEMENT CLASSIFICATION

Twelve tables for each station depict wind direction vs. wind speed distributions. Half the tables show daytime distributions for six ceiling-visibility classes, and half show nighttime distributions for the same six ceiling-visibility classes. A graphical depiction of the data in each table is also presented. An additional graph for each station depicts the combined day and night winds for all ceiling-visibility conditions.

Wind direction is grouped according to a 16-point compass (N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW) plus calm. The wind speed groups are 0-3, 4-12, 13-15, 16-18, 19-24, 25-31 and equal to or greater than 32 mph.

The ceiling-visibility criteria are defined as:

CLASS 1 = ceiling equal to or greater than 1,500 feet and visibility equal to or greater than 3 miles.

CLASS 2 = ceiling less than 1,500 feet and/or visibility less than 3 miles.

CLASS 3 = ceiling less than 1,500 feet and/or visibility less than 3 miles, but ceiling equal to or greater than 400 feet and visibility equal to or greater than 1 mile.

CLASS 4 = ceiling less than 400 feet and/or visibility less than 1 mile, but ceiling equal to or greater than 200 feet and visibility equal to or greater than 1/2 mile.

CLASS 5 = ceiling less than 200 feet and/or visibility less than 1/2 mile, but ceiling equal to or greater than 100 feet and visibility equal to or greater than 1/4 mile.

CLASS 6 = ceiling less than 100 feet and/or visibility less than 1/4 mile.

CLASS 7 = all ceiling and visibility conditions; sum of classes 1 and 2; also the sum of classes 1 and 3 through 6.

Time conditions are determined from the onset of civil twilight in the morning to the end of civil twilight in the evening. Civil twilight begins (ends) when the sun is six degrees below the horizon. It covers the somewhat indefinite period before sunrise and after sunset during which natural illumination usually remains sufficient for ordinary outdoor operations. For this report the morning (evening) times of beginning (ending) of civil twilight at a station are determined for the middle of a month. All data within this month are classified as either day or night according to these times.

DATA

The data used in the preparation of the climatological tables and graphs were extracted from the National Climatic Center's Tape Deck 1440 Hourly Surface Observations. The data contained in this deck have been digitized from the official observations recorded on station. From about 1948 through 1964 data were digitized for each hour in a day. From 1965 onward only every third hour's data were digitized. The tables and graphs in this report are based on eight observations per day (every third hour) for

the entire period of record. This was done to eliminate the data bias problems that would have been created by trying to mix the 24 observations per day prior to 1965 with the 8 observations per day after 1964.

The effect on the climatology of not using all the available data was examined for representative key stations in each region. Monthly day and night distributions were prepared for all ceiling-visibility criteria and wind speed and direction groups using 24 observations per day. A data subset was created by extracting every third observation from the hourly data set, and similar frequency distributions were prepared. The Kolmogorov-Smirnov test was applied to evaluate the hypotheses that distributions using 24 observations per day are statistically the same as distributions using 8 observations per day. The results of this procedure indicate equality

of distributions in most cases. Therefore, no significant information has been lost by basing the climatologies on 8 observations per day. Exceptions are discussed in Volume 11.

The tables and graphs are also available on microfiche, and the summarized data are available on magnetic tape. This report presents annual summaries, but monthly summaries can be generated on magnetic tape. Requests for microfiche copies of this report and for data on magnetic tape should be addressed to:

Director
National Climatic Center
Federal Building
Asheville, NC 28801

The requested microfiche copies and/or tapes will be provided at cost.

TABLE LEGEND

A = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6, all wind speed classes and directions times 100.

B = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in the given ceiling-visibility class and direction times 100.

C = number of day (night) observations of a given direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

D = number of day (night) observations of a given direction divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

E = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

F = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

G = number of day (night) observations in the given ceiling-visibility class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

100 = summation of column D = summation of row F.

H = average wind speed for the given day (night) ceiling-visibility class and direction.

I = average wind speed for the given day (night) ceiling-visibility class.

J = overall period of record: see station list for actual years of record used.

Note: Ceiling-visibility class 2 is the sum of classes 3-6.

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BDR BRIDGEPORT, CT

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 94702

NO. OBS.: 29909

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.3	.3	2.6	3.1	1.1	1.4	.8	.9	.6	.8	.1	.1	.0	.0	5.5	6.6	12.6		
NNE	.2	.3	1.7	2.1	.6	.7	.3	.4	.2	.3	.1	.1	.0	.0	3.2	3.8	11.3		
NNE	.3	.4	2.2	2.6	.9	1.0	.6	.7	.3	.4	.0	.0	.0	.0	4.3	5.1	11.5		
ENE	.2	.2	1.5	1.8	.6	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.0	3.5	11.7		
E	.2	.2	2.2	2.6	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	4.2	5.0	11.9		
ESE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.7	3.2	10.9		
SE	.2	.2	1.5	1.7	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.2	2.6	9.8		
SSE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.3	2.8	9.8		
S	.2	.2	2.9	3.5	1.2	1.5	.9	1.1	.6	.8	.1	.1	.0	.0	5.0	5.9	11.4		
SSW	.1	.1	2.5	3.0	1.2	1.4	.9	1.1	.6	.8	.1	.1	.0	.0	5.3	6.3	12.8		
SW	.2	.3	4.6	5.4	2.0	2.4	1.3	1.6	.6	.7	.1	.1	.0	.0	8.8	10.5	12.1		
WSW	.2	.2	3.8	4.5	1.8	2.2	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.1	9.6	13.1		
W	.1	.2	2.9	3.5	1.3	1.6	1.1	1.4	.1	1.3	.4	.5	.1	.1	7.1	8.5	14.4		
WNW	.2	.2	2.1	2.5	1.3	1.6	1.3	1.6	1.6	1.9	.7	.9	.2	.2	7.5	8.8	16.3		
NW	.2	.3	2.1	2.5	1.3	1.6	1.6	1.8	1.6	1.9	.7	.9	.1	.2	7.7	9.2	16.0		
NNW	.2	.2	2.1	2.5	1.2	1.4	1.1	1.3	1.3	1.5	.4	.5	.1	.1	6.3	7.5	15.1		
CALM	1.1	1.3													1.1	1.3			
TOTAL	4.1	4.8	38.2	45.3	16.4	19.5	12.3	14.6	9.8	11.7	3.0	3.5	.6	.7	84.3	100	13.0		

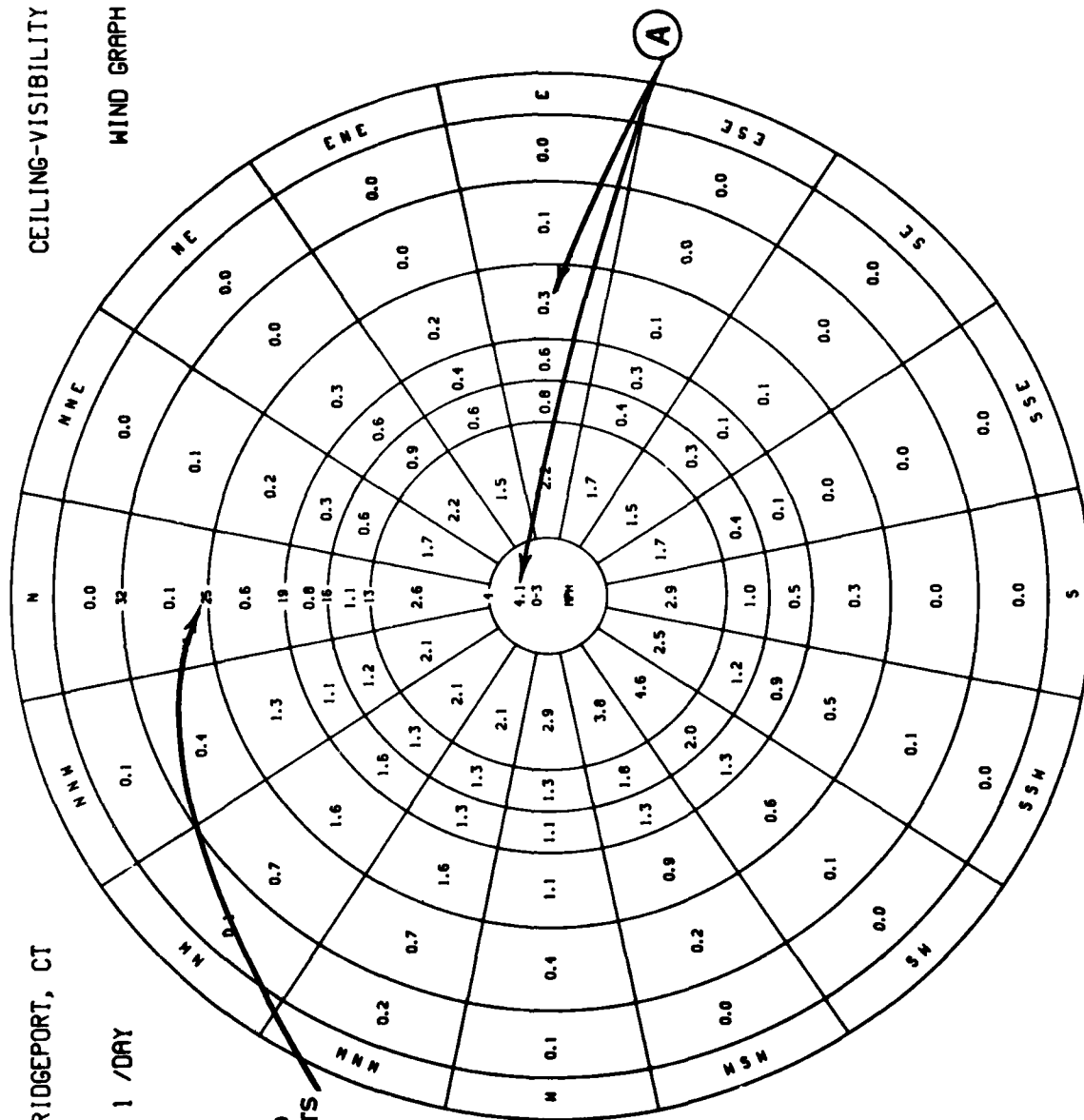
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CEILING-VISIBILITY
WIND GRAPH

BUR BRIDGEPORT, CT

CLASS 1 /DAY

WIND SPEED
CLASS LIMITS
IN MPH



STATION LIST

ST CITY	AP ID	STATION NUMBER	PERIOD OF RECORD
IA			
Burlington	BRL	14931	1948-1978
Des Moines	DSM	14933	1948-1978
Mason City	MCW	14940	1948-1978
Sioux City	SUX	14943	1948-1978
Waterloo	ALO	94910	1961-1978
KS			
Concordia	CNK	13984	1963-1978
Dodge City	DDC	13985	1948-1978
Goodland	GLD	23065	1948-1978
Russell	RSL	93997	1950-1978
Topeka	TOP	13996	1948-1978
Wichita	ICT	03928	1954-1978
MO			
Columbia	COU	03945	1970-1978
Kansas City	MCI	03947	1973-1978
St Joseph	STJ	13993	1965-1974
St Louis	STL	13994	1948-1978
Springfield	SGF	13995	1948-1978

NE

Grand Island	GRI	14935	1948-1978	1955-1963	1973-1978
Lincoln	LNK	14939	1948-1951		
North Platte	LBF	24023	1948-1978		
Omaha	OMA	14942	1948-1978		
Scottsbluff	BFF	24028	1948-1978		

* Note: Period of record does not end in 1978.

CENTRAL REGION

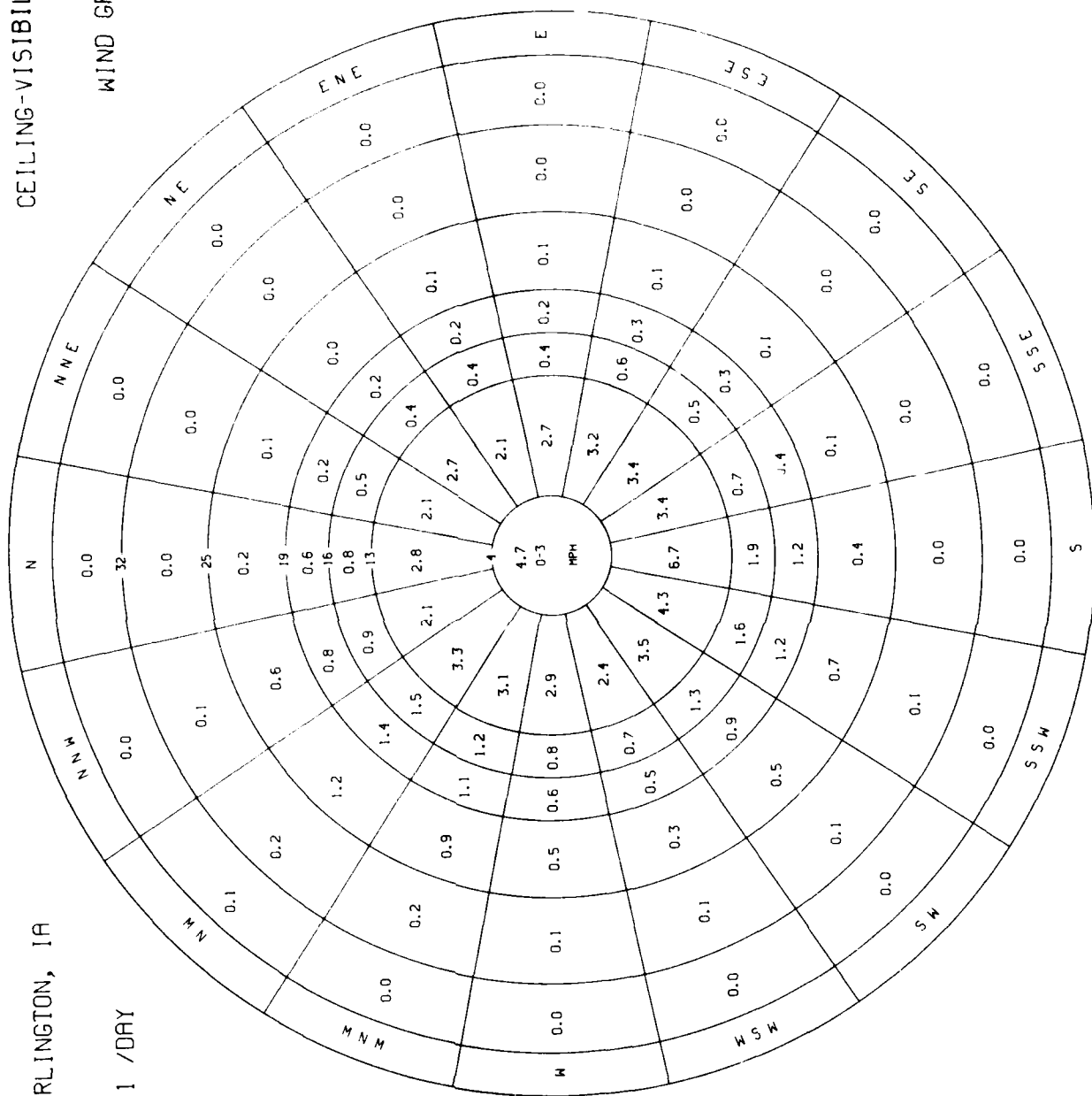
(ACE)

CEILING-VISIBILITY

WIND GRAPH

BRL BURLINGTON, IA

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BRL BURLINGTON, IA

CLASS 1 / DAY

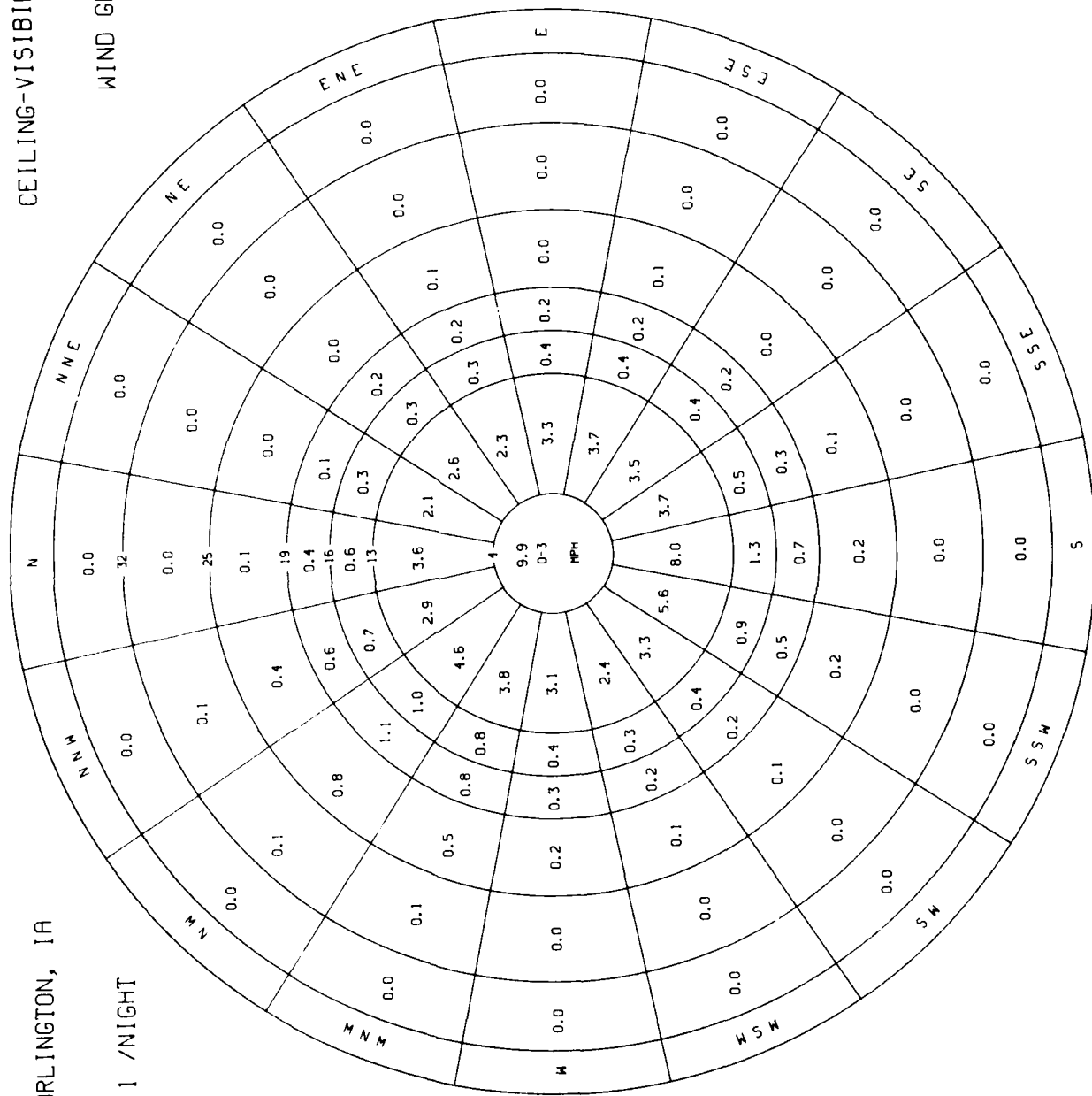
NO. OBS.: 42588

STATION NUMBER: 14931

D I R	SPEED GROUPS (MPH)																	AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.2	.2	2.8	3.3	.8	1.0	.6	.7	.2	.3	.0	.0	.0	.0	4.7	5.4	11.2	
NNE	.1	.1	2.1	2.4	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.3	10.1	
NE	.2	.2	2.7	3.1	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	3.5	4.0	9.4	
ENE	.1	.1	2.1	2.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.4	10.1	
E	.2	.2	2.7	3.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.5	4.1	9.5	
ESE	.2	.2	3.2	3.7	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	4.4	5.0	9.7	
SE	.2	.3	3.4	3.9	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	4.5	5.2	9.6	
SSE	.2	.2	3.4	3.9	.7	.8	.4	.5	.1	.2	.0	.0	.0	.0	4.8	5.6	10.2	
S	.2	.3	6.7	7.7	1.9	2.2	1.2	1.4	.4	.5	.0	.0	.0	.0	10.6	12.2	11.1	
SSW	.2	.2	4.3	4.9	1.6	1.9	1.2	1.4	.7	.9	.1	.1	.0	.0	8.2	9.4	12.4	
SW	.2	.3	3.5	4.0	1.3	1.5	.9	1.0	.5	.6	.1	.1	.0	.0	6.5	7.5	12.1	
WSW	.1	.1	2.4	2.8	.7	.8	.5	.5	.3	.4	.1	.1	.0	.0	4.0	4.7	11.6	
W	.2	.2	2.9	3.3	.8	1.0	.6	.7	.5	.5	.1	.1	.0	.0	5.2	5.9	12.0	
WNW	.2	.2	3.1	3.6	1.2	1.4	1.1	1.3	.9	1.0	.2	.2	.0	.0	6.8	7.9	13.1	
NW	.2	.2	3.3	3.8	1.5	1.7	1.4	1.6	1.2	1.4	.2	.2	.1	.1	7.8	9.0	13.8	
NNW	.2	.2	2.1	2.4	.9	1.0	.8	.9	.6	.7	.1	.1	.0	.0	4.6	5.3	13.0	
CALM	1.9	2.2													1.9	2.2		
TOTAL	4.7	5.4	50.6	58.3	14.2	16.4	10.1	11.6	6.1	7.0	.9	1.1	.1	.2	86.8	100	11.2	

BRL BURLINGTON, IA

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BRL BURLINGTON, IA

CLASS 1 / NIGHT

NO. OBS.: 36293

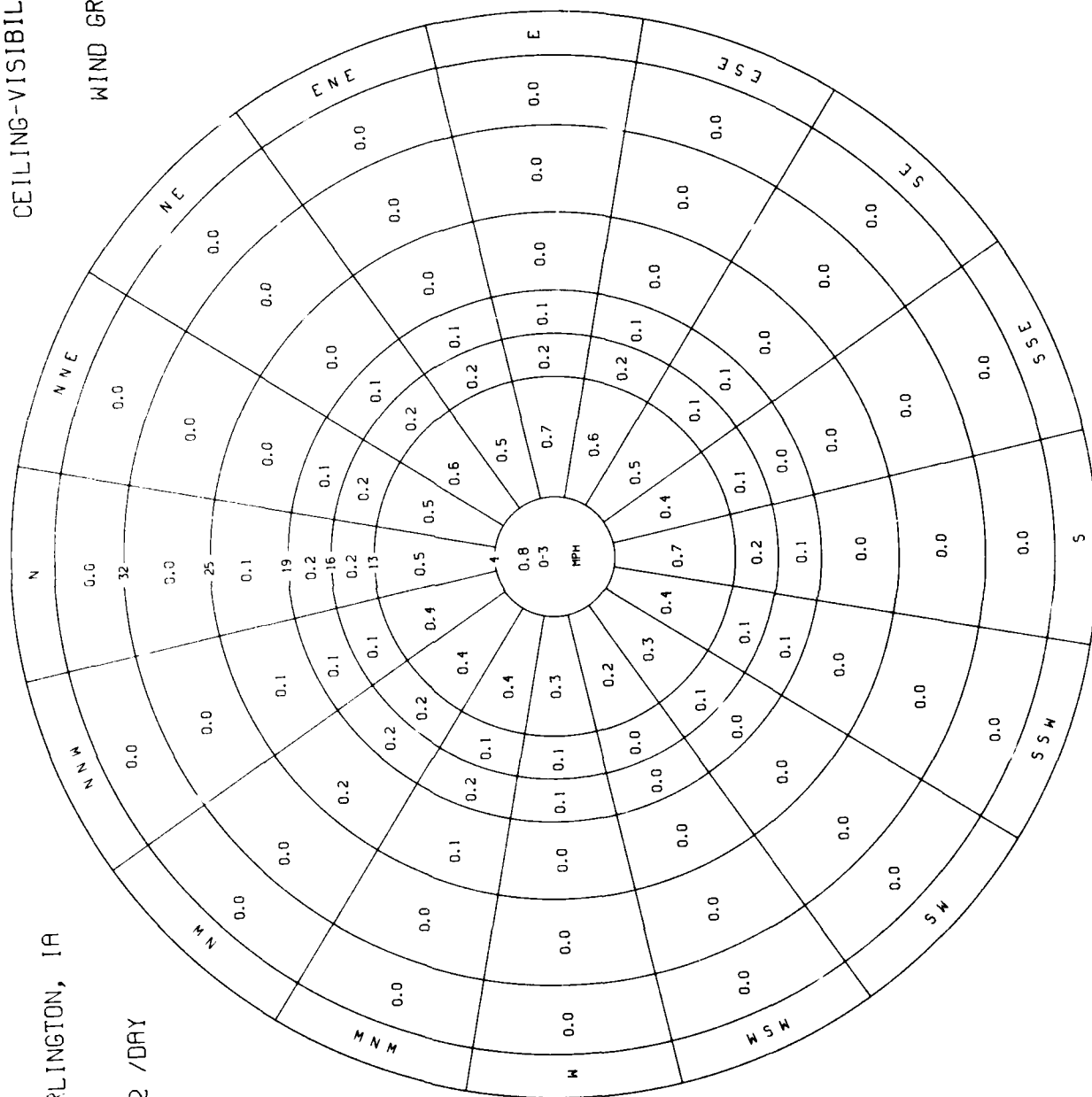
STATION NUMBER: 14931

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.3	3.6	4.1	.6	.7	.4	.5	.1	.2	.0	.0	.0	.0	5.1 5.8
NNE	.2	.2	2.1	2.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.7 3.1
NE	.3	.3	2.6	3.0	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.4 3.9
ENE	.2	.2	2.3	2.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.1 3.5
E	.3	.3	3.3	3.8	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	4.2 4.8
ESE	.3	.3	3.7	4.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.6 5.2
SE	.3	.3	3.5	4.0	.4	.5	.2	.3	.0	.0	.0	.0	.0	.0	4.4 5.1
SSE	.3	.3	3.7	4.3	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.9 5.6
S	.5	.6	8.0	9.1	1.3	1.5	.7	.8	.2	.2	.0	.0	.0	.0	10.8 12.3
SSW	.2	.3	5.6	6.3	.9	1.1	.5	.6	.2	.2	.0	.0	.0	.0	7.5 8.5
SW	.3	.4	3.3	3.8	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	4.5 5.1
WSW	.2	.2	2.4	2.7	.3	.3	.2	.3	.1	.1	.0	.0	.0	.0	3.3 3.7
W	.3	.4	3.1	3.5	.4	.5	.3	.3	.2	.2	.0	.1	.0	.0	4.4 5.0
WNW	.4	.4	3.8	4.4	.8	.9	.8	.9	.5	.6	.1	.1	.0	.0	6.4 7.4
NW	.4	.5	4.6	5.3	1.0	1.2	1.1	1.2	.8	.9	.1	.1	.0	.0	8.0 9.2
NNW	.3	.3	2.9	3.3	.7	.8	.6	.7	.4	.4	.1	.1	.0	.0	5.0 5.7
CALM	5.2	6.0													5.2 6.0
TOTAL	9.9	11.3	58.6	67.0	9.1	10.4	6.3	7.2	3.1	3.5	.4	.5	.1	.1	87.5 100

BRL BURLINGTON, IA

CLASS 2 / DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 2 / DAY

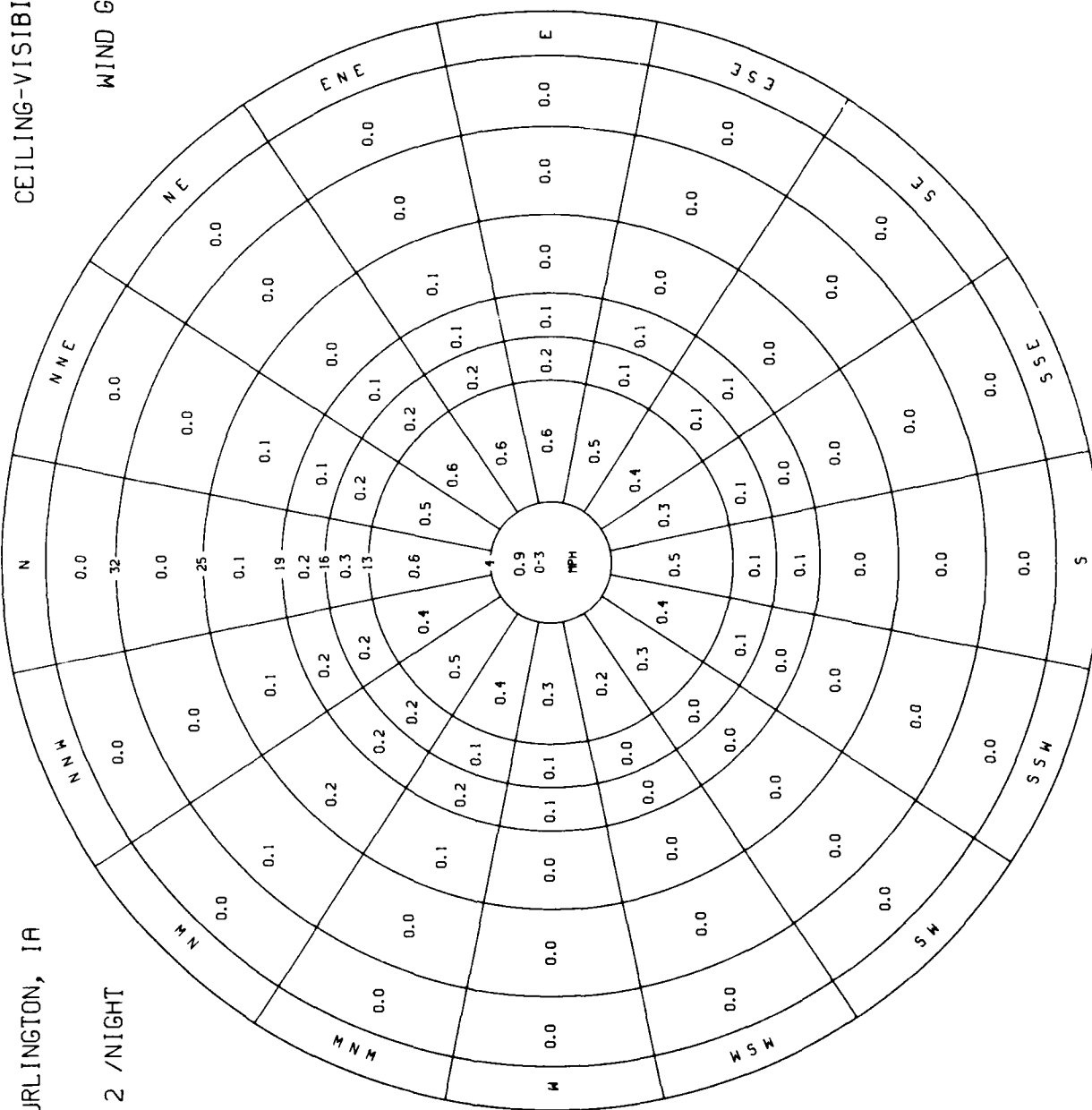
STATION NUMBER: 14931

NO. OBS.: 6466

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	4.1	.2	1.8	.2	1.4	.1	.7	.0	.1	.0	.0	1.1 8.4
NNE	.0	.3	.5	3.7	.2	1.3	.1	.8	.0	.3	.0	.0	.0	.0	.9 6.5
NNE	.0	.2	.6	4.8	.2	1.3	.1	1.0	.0	.3	.0	.1	.0	.0	1.0 7.6
ENE	.0	.2	.5	3.8	.2	1.3	.1	.9	.0	.4	.0	.1	.0	.0	.9 6.7
E	.0	.3	.7	5.2	.2	1.4	.1	.9	.0	.3	.0	.0	.0	.0	1.1 8.2
ESE	.0	.3	.6	4.6	.2	1.4	.1	.6	.0	.4	.0	.0	.0	.0	1.0 7.3
SE	.0	.2	.5	3.4	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7 5.0
SSE	.0	.2	.4	2.9	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.5 4.1
S	.0	.1	.7	5.3	.2	1.3	.1	.5	.0	.2	.0	.0	.0	.0	1.0 7.5
SSW	.0	.2	.4	3.1	.1	.5	.1	.4	.0	.1	.0	.0	.0	.0	.6 4.3
SW	.0	.1	.3	2.6	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.5 4.0
WSW	.0	.1	.2	1.5	.0	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3 2.4
W	.0	.2	.3	2.0	.1	.6	.1	.5	.0	.3	.0	.2	.0	.1	.5 3.9
WNW	.0	.2	.4	2.8	.1	1.0	.2	1.4	.1	1.1	.0	.2	.0	.0	.9 6.7
NW	.0	.2	.4	3.3	.2	1.4	.2	1.5	.2	1.5	.0	.3	.0	.1	1.1 8.2
NNW	.0	.2	.4	2.8	.1	1.1	.1	1.1	.1	.8	.0	.2	.0	.1	.8 6.3
CALM	.4	2.9													.4 2.9
TOTAL	.8	6.2	7.4	56.0	2.2	16.7	1.6	12.4	.9	7.0	.2	1.4	.1	.4	13.2 100

CEILING-VISIBILITY

WIND GRAPH



BRL BURLINGTON, IA

CLASS 2 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

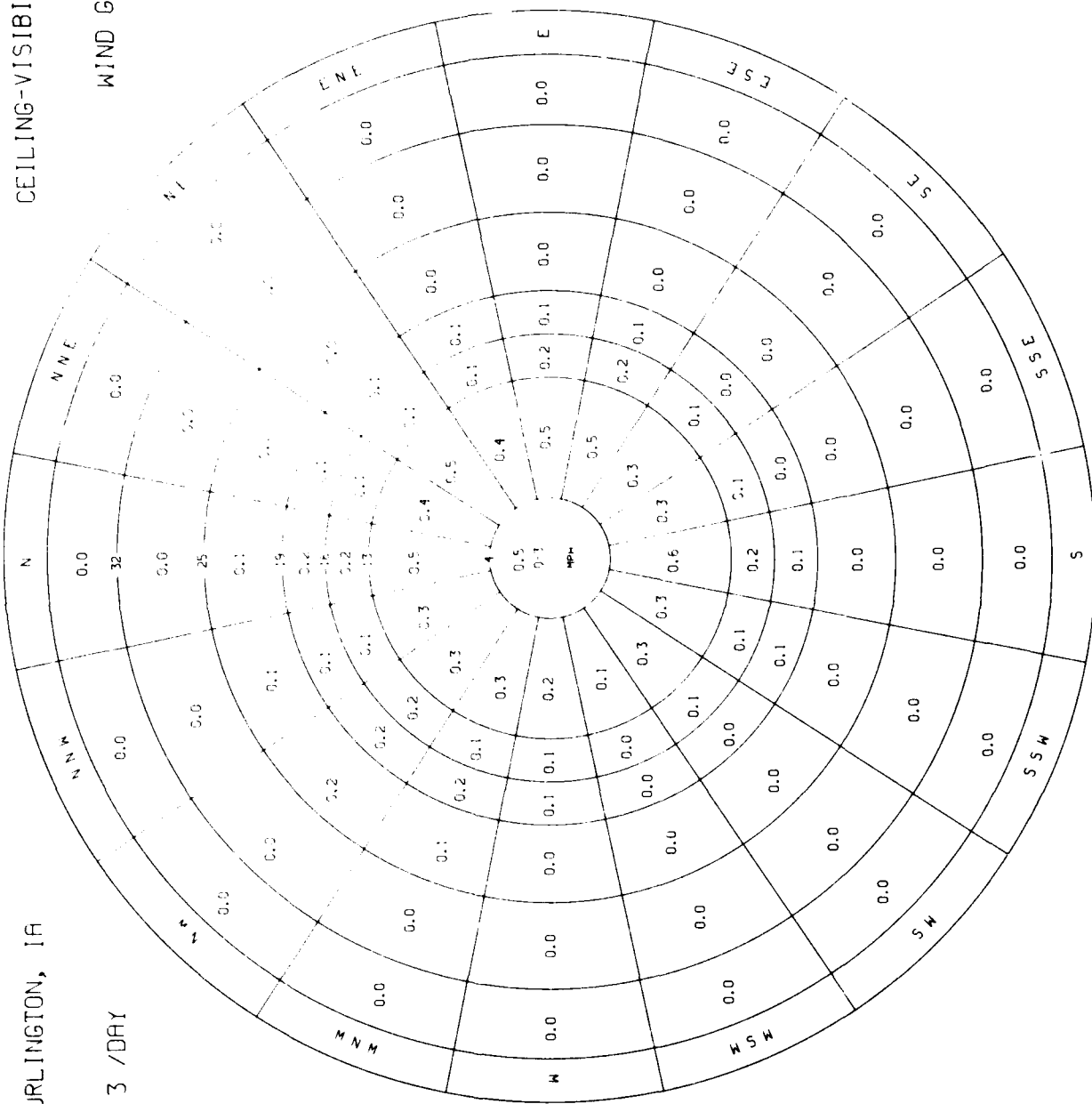
CLASS 2 / NIGHT

STATION NUMBER: 14931

NO. OBS.: 5201

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	4.6	.3	2.0	.2	1.3	.1	.7	.0	.2	.0	.0	1.1 9.2 12.6
NNE	.0	.2	.5	4.1	.2	1.3	.1	1.0	.1	.4	.0	.0	.0	.0	.9 7.0 11.5
NNE	.0	.3	.6	4.8	.2	1.3	.1	.8	.0	.4	.0	.1	.0	.0	1.0 7.7 11.1
ENE	.0	.1	.6	4.4	.2	1.3	.1	.5	.1	.6	.0	.1	.0	.0	.9 7.1 11.6
E	.0	.4	.6	4.5	.2	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.9 7.2 10.6
ESE	.0	.2	.5	4.1	.1	1.0	.1	.6	.0	.1	.0	.0	.0	.0	.8 6.0 10.5
SE	.0	.2	.4	3.3	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.6 4.8 10.0
SSE	.0	.2	.3	2.7	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5 4.0 9.9
S	.1	.5	.5	4.4	.1	1.0	.1	.7	.0	.1	.0	.0	.0	.0	.8 6.6 10.0
SSW	.0	.1	.4	2.8	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5 3.8 9.9
SW	.0	.3	.3	2.2	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4 3.2 9.4
WSW	.0	.2	.2	1.8	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.3 2.7 10.1
W	.0	.3	.3	2.3	.1	.6	.1	.4	.0	.3	.0	.1	.0	.0	.5 4.1 11.3
WNW	.0	.3	.4	3.2	.1	1.1	.2	1.3	.1	.8	.0	.1	.0	.0	.9 6.9 12.9
NW	.0	.2	.5	3.7	.2	1.6	.2	2.0	.2	1.3	.1	.4	.0	.0	1.2 9.2 14.0
NNW	.0	.3	.4	2.9	.2	1.6	.2	1.2	.1	.8	.0	.3	.0	.0	.9 7.2 13.3
CALM	.4	3.5													.4 3.5
TOTAL	.9	7.6	7.0	56.0	2.0	16.3	1.5	12.0	.8	6.7	.2	1.3	.0	.2	12.5 100 11.1

CEILING-VISIBILITY WIND GRAPH



BRL BURLINGTON, IA

CLASS 3 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14931

NO. OBS.: 5287

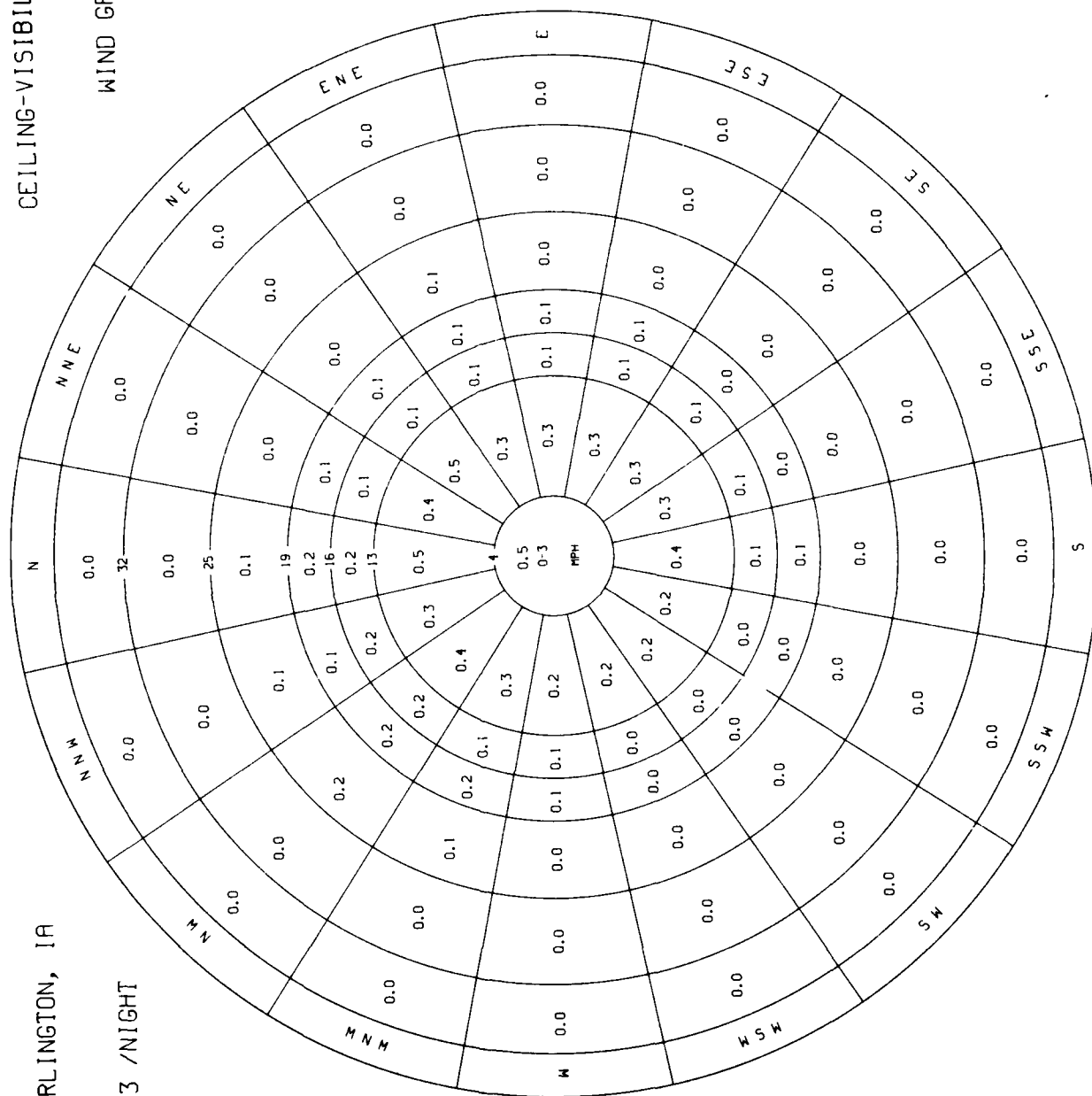
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.5	4.2	.2	1.9	.2	1.4	.1	.7	.0	.1	.0	.0	.9 8.4
NNE	.0	.3	.4	3.7	.1	1.4	.1	.8	.0	.3	.0	.0	.0	.0	.7 6.5
NE	.0	.2	.5	4.6	.1	1.2	.1	1.0	.0	.3	.0	.1	.0	.0	.8 7.3
ENE	.0	.2	.4	3.3	.1	1.2	.1	.9	.0	.3	.0	.1	.0	.0	.7 6.1
E	.0	.3	.5	5.0	.2	1.4	.1	1.0	.0	.3	.0	.0	.0	.0	.9 8.0
ESE	.0	.2	.5	4.2	.2	1.4	.1	.7	.0	.4	.0	.0	.0	.0	.8 7.0
SE	.0	.2	.3	3.1	.1	.8	.0	.5	.0	.2	.0	.0	.0	.0	.5 4.8
SSE	.0	.1	.3	2.7	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.4 3.9
S	.0	.2	.6	5.4	.2	1.5	.1	.6	.0	.2	.0	.0	.0	.0	.8 7.9
SSW	.0	.2	.3	2.9	.1	.5	.1	.5	.0	.1	.0	.0	.0	.0	.5 4.3
SW	.0	.1	.3	2.5	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.4 4.0
WSW	.0	.1	.1	1.4	.0	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3 2.5
W	.0	.2	.2	2.1	.1	.7	.1	.6	.0	.4	.0	.2	.0	.1	.5 4.4
WNW	.0	.2	.3	2.8	.1	1.2	.2	1.7	.1	1.2	.0	.3	.0	.1	.8 7.5
NW	.0	.2	.3	3.2	.2	1.6	.2	1.7	.2	1.7	.0	.3	.0	.1	1.0 8.8
NNW	.0	.2	.3	2.9	.1	1.2	.1	1.2	.1	.9	.0	.2	.0	.0	.7 6.5
CALM	.2	2.2													.2 2.2
TOTAL	.5	5.1	5.8	54.1	1.9	17.8	1.5	13.6	.8	7.6	.2	1.5	.0	.4	10.8 100

CEILING-VISIBILITY

WIND GRAPH

BRL BURLINGTON, IA

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BRL BURLINGTON, IA

CLASS 3 / NIGHT

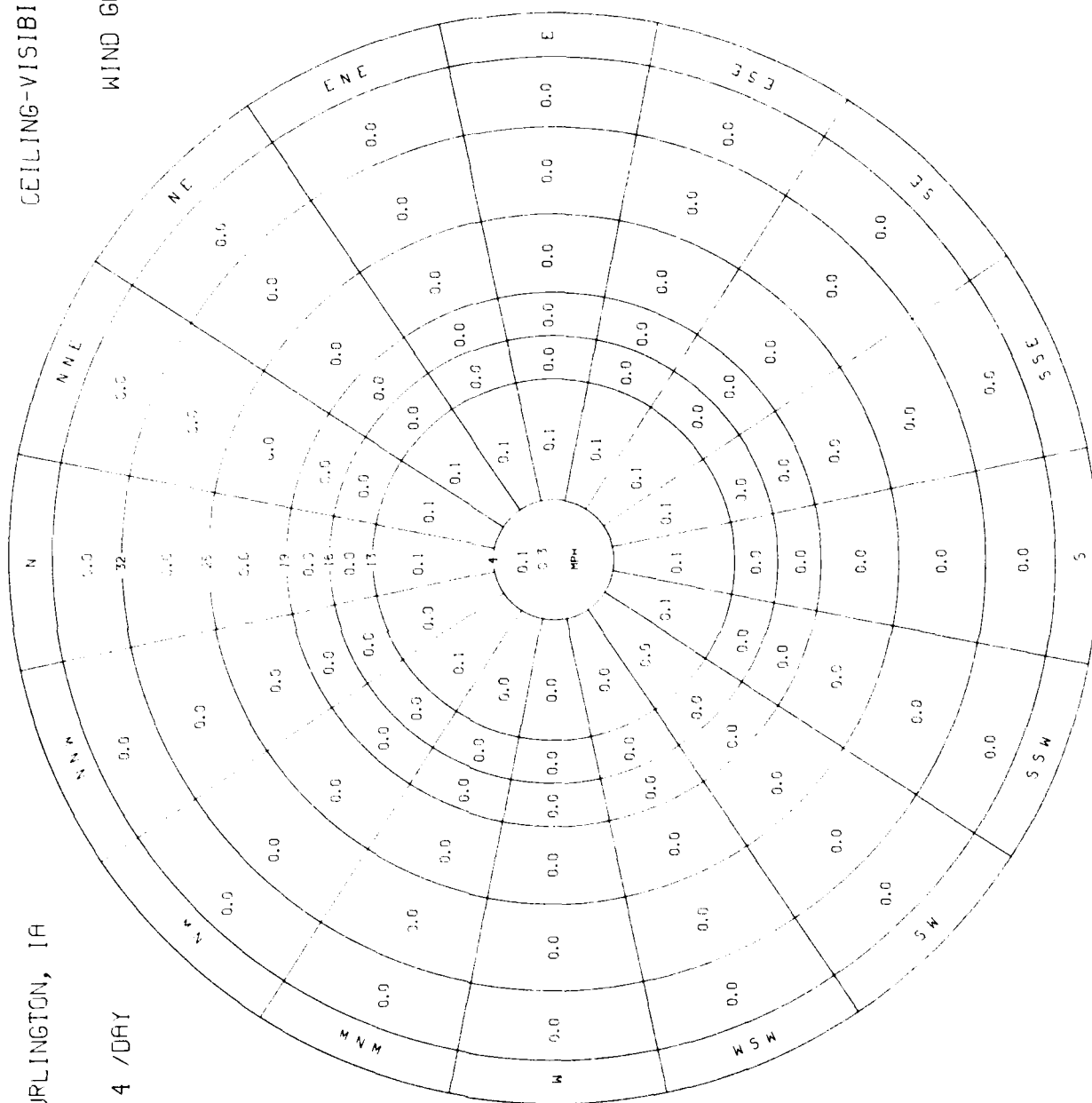
NO. OBS.: 3859

STATION NUMBER: 14931

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	4.9	.2	2.4	.2	1.7	.1	.8	.0	.1	.0	.0	.9 10.2
NNE	.0	.2	.4	3.9	.1	1.4	.1	1.1	.0	.4	.0	.0	.0	.0	.7 7.0
NE	.0	.2	.5	4.8	.1	1.2	.1	.9	.0	.4	.0	.1	.0	.0	.7 7.6
ENE	.0	.1	.3	3.2	.1	1.3	.1	.5	.1	.8	.0	.1	.0	.0	.6 6.0
E	.0	.3	.3	3.8	.1	1.2	.1	.8	.0	.3	.0	.0	.0	.0	.6 6.4
ESE	.0	.2	.3	3.4	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.5 5.5
SE	.0	.2	.3	2.9	.1	.8	.0	.5	.0	.1	.0	.0	.0	.0	.4 4.4
SSE	.0	.2	.3	2.8	.1	.6	.0	.4	.0	.1	.0	.0	.0	.0	.4 4.1
S	.0	.3	.4	4.0	.1	1.1	.1	.8	.0	.2	.0	.0	.0	.0	.6 6.4
SSW	.0	.0	.2	2.4	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.3 3.4
SW	.0	.2	.2	1.9	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.3 3.1
WSW	.0	.1	.2	1.8	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.3 2.7
W	.0	.2	.2	2.2	.1	.8	.1	.5	.0	.4	.0	.1	.0	.0	.4 4.3
WNW	.0	.3	.3	3.7	.1	1.3	.2	1.7	.1	1.1	.0	.2	.0	.0	.8 8.3
NW	.0	.2	.4	4.1	.2	1.8	.2	2.6	.2	1.7	.0	.5	.0	.0	1.0 10.9
NNW	.0	.3	.3	3.0	.2	2.0	.1	1.6	.1	1.0	.0	.2	.0	.0	.7 8.0
CALM	.2	1.9													.2 1.9
TOTAL	.5	5.1	4.9	52.9	1.7	18.1	1.3	14.4	.7	8.0	.1	1.4	.0	.1	9.3 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BAL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 4 / DAY

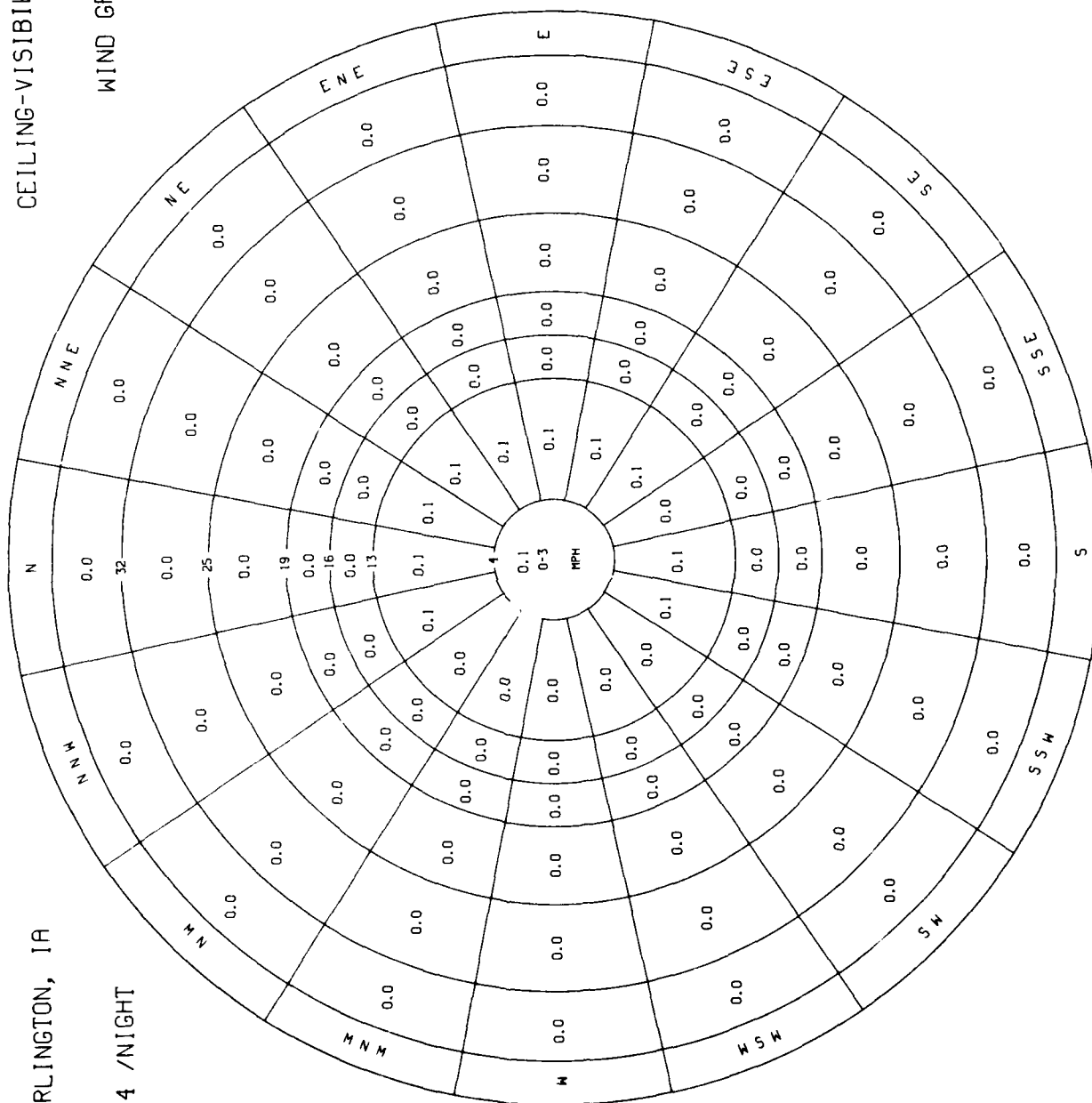
STATION NUMBER: 1493

NO. OBS.: 810

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.1	4.0	.0	1.7	.0	2.0	.0	.7	.0	.0	.0	.1	.1	8.9	13.2
NNE	.0	.6	.1	4.1	.0	1.2	.0	.9	.0	.5	.0	.2	.0	.0	.1	7.5	11.7
NNE	.0	.2	.1	5.8	.0	1.5	.0	1.4	.0	.6	.0	.0	.0	.0	.2	9.5	11.3
ENE	.0	.2	.1	5.6	.0	1.7	.0	1.0	.0	.7	.0	.1	.0	.0	.2	9.4	11.7
E	.0	.5	.1	6.7	.0	1.5	.0	.6	.0	.6	.0	.1	.0	.0	.2	10.0	10.9
ESE	.0	.2	.1	6.5	.0	1.0	.0	.7	.0	.4	.0	.0	.0	.0	.1	8.9	10.2
SE	.0	.1	.1	4.8	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	5.6	8.8
SSE	.0	.2	.1	4.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1	4.7	9.4
S	.0	.0	.1	4.9	.0	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	6.2	9.6
SSW	.0	.1	.1	3.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.5	8.9
SW	.0	.1	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	9.1
WSW	.0	.1	.0	1.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.2	8.5
W	.0	.1	.0	1.5	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	1.9	10.1
WNW	.0	.2	.0	2.3	.0	.1	.0	.4	.0	.2	.0	.0	.0	.0	.1	3.3	10.3
NW	.0	.4	.1	3.3	.0	.7	.0	.6	.0	.4	.0	.1	.0	.0	.1	5.6	10.6
NNW	.0	.2	.0	2.7	.0	1.1	.0	1.0	.0	.6	.0	.0	.0	.0	.1	5.7	12.2
CALM	.1	4.0													.1	4.0	
TOTAL	.1	7.9	1.1	63.8	.2	13.3	.2	9.1	.1	4.9	.0	.7	.0	.1	1.7	100	10.4

CEILING-VISIBILITY

WIND GRAPH



BRL BURLINGTON, IA

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 4 / NIGHT

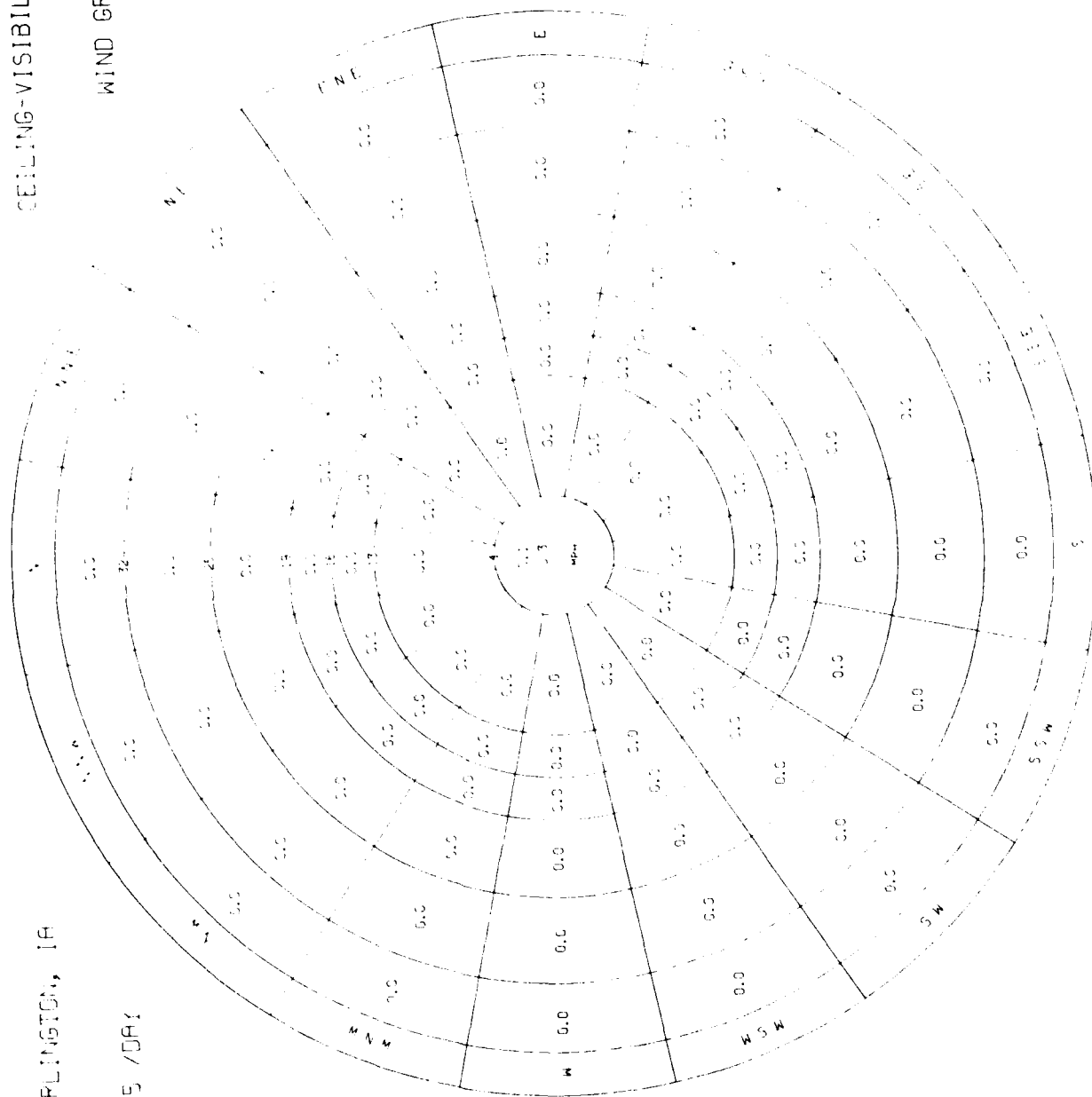
STATION NUMBER: 14931

NO. OBS.: 723

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.1	4.4	.0	1.1	.0	.7	.0	1.0	.0	.4	.0	.0	.1	7.7	13.1
NNE	.0	.1	.1	5.5	.0	1.8	.0	.7	.0	.6	.0	.0	.0	.0	.2	8.7	10.8
NE	.0	.1	.1	4.8	.0	2.8	.0	1.2	.0	.6	.0	.0	.0	.0	.2	9.5	12.0
ENE	.0	.0	.1	8.4	.0	2.1	.0	.7	.0	.1	.0	.0	.0	.0	.2	11.3	11.0
E	.0	.4	.1	7.6	.0	1.8	.0	.7	.0	.6	.0	.0	.0	.0	.2	11.1	9.9
ESE	.0	.1	.1	5.8	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	7.5	10.0
SE	.0	.1	.1	4.8	.0	.7	.0	.6	.0	.1	.0	.0	.0	.0	.1	6.4	9.0
SSE	.0	.1	.0	1.9	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.0	9.4
S	.0	.4	.1	5.1	.0	.4	.0	.6	.0	.0	.0	.0	.0	.0	.1	6.5	8.5
SSW	.0	.1	.1	2.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	3.9	9.9
SW	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.0	6.9
WSW	.0	.1	.0	1.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.5	8.4
W	.0	.6	.0	1.2	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	2.2	9.7
WNW	.0	.1	.0	1.5	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	2.4	10.1
NW	.0	.0	.0	2.5	.0	1.1	.0	.3	.0	.4	.0	.6	.0	.0	.1	4.8	13.1
NNW	.0	.4	.1	2.9	.0	.7	.0	.4	.0	.7	.0	.7	.0	.0	.1	5.8	13.0
CALM	.1	4.6													.1	4.6	
TOTAL	.1	8.0	1.1	63.3	.3	15.2	.1	7.2	.1	4.4	.0	1.7	.0	.1	1.7	100	10.2

CEILING-VISIBILITY

WIND GRAPH



BRL BURLINGTON, IA

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BAL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 5 / DAY

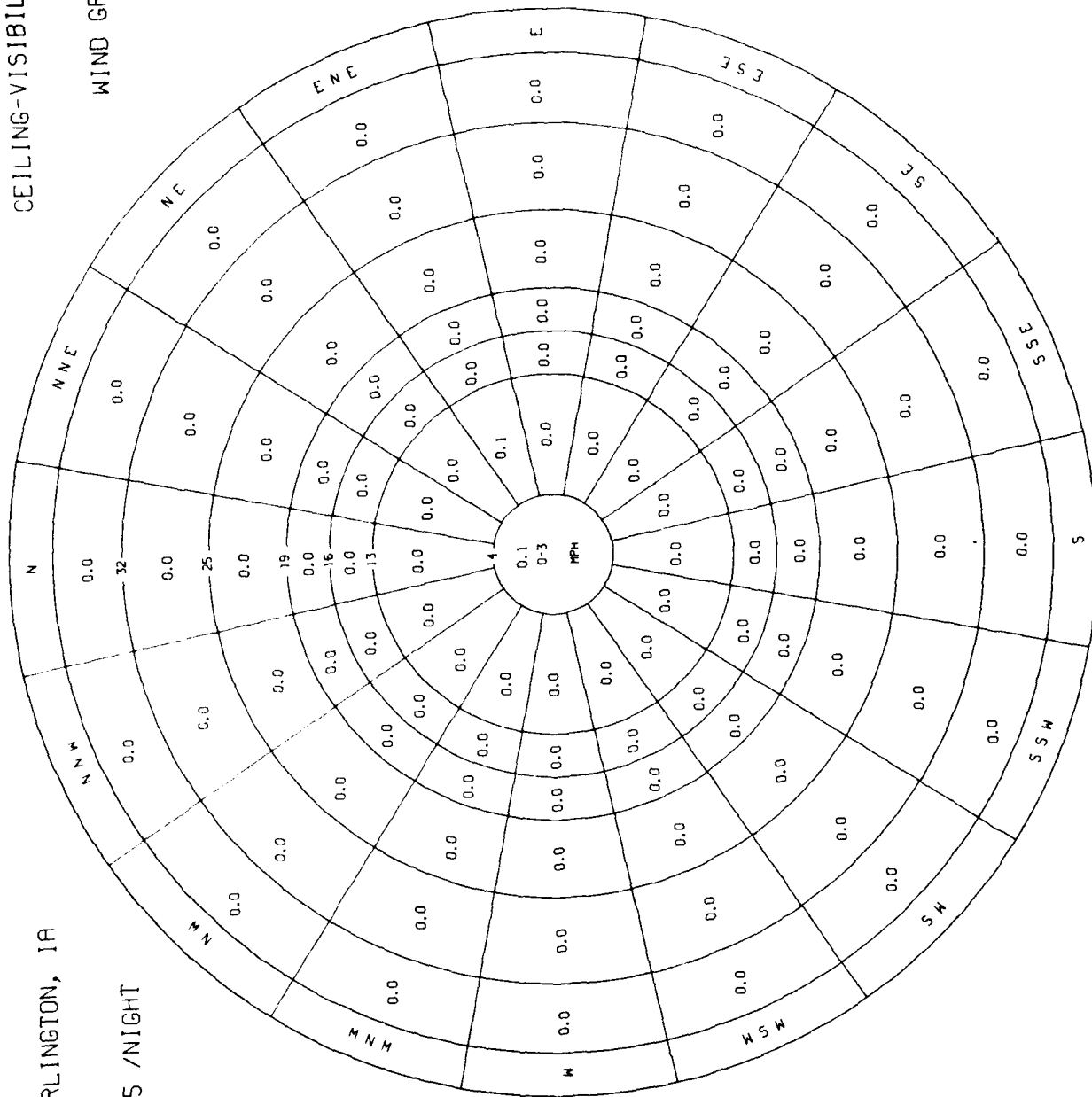
STATION NUMBER: 14931

NO. OBS.: 176

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	6.8	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0 6.5 9.4
NNE	.0	.0	.0	.1	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0 4.1 15.5
NE	.0	.0	.0	3.4	.0	1.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0 6.3 11.5
ENE	.0	.0	.0	8.0	.0	1.7	.0	1.1	.0	.6	.0	.0	.0	.0	.0 10.8 9.4
E	.0	.6	.0	5.1	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0 7.4 9.3
ESE	.0	.6	.0	5.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.0 9.1
SE	.0	1.1	.0	2.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.1 7.6
SSE	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5 6.7
S	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.4 11.1
SSW	.0	.0	.0	5.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7 9.0
SW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4 9.7
WSW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.8 9.6
W	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7 13.3
WNW	.0	.6	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0 7.9
NW	.0	1.1	.0	3.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 5.1 11.1
NNW	.0	.0	.0	2.8	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0 7.1 8.5
CALM	.0	10.8													.0 10.8 9.3
TOTAL	1.1	7.0	2.2	60.2	.0	9.7	.0	5.1	.0	4.1	.0	.0	.0	.0	.0 3.1 9.3

CEILING-VISIBILITY

WIND GRAPH



BRL BURLINGTON, IA

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14931

NO. OBS.: 289

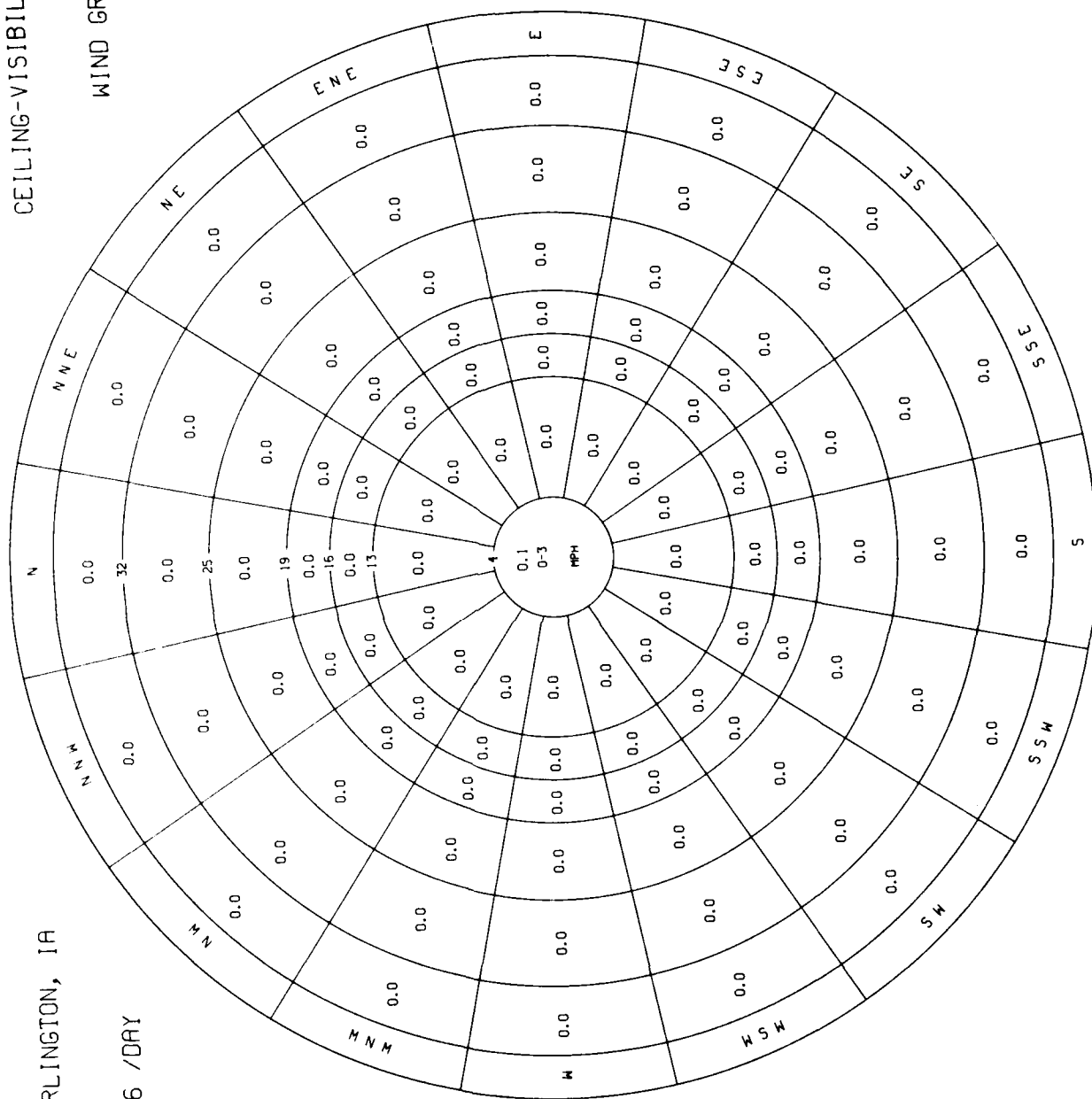
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.0	4.2	.0	1.0	.0	.3	.0	.7	.0	.0	.0	.0	.0 6.6
NNE	.0	.3	.0	5.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0 6.2
NE	.0	.7	.0	5.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
ENE	.0	.3	.1	8.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.1 9.7
E	.0	.7	.0	5.2	.0	1.0	.0	.7	.0	.7	.0	.0	.0	.0	.1 8.3
ESE	.0	.0	.0	5.9	.0	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.1 7.3
SE	.0	1.0	.0	4.5	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0 6.2
SSE	.0	.0	.0	3.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
S	.0	.7	.0	3.8	.0	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0 5.9
SSW	.0	.7	.0	3.8	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 5.2
SW	.0	1.4	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
WSW	.0	.3	.0	3.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0 3.8
W	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0 3.1
WNW	.0	.3	.0	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
NW	.0	.0	.0	3.1	.0	1.0	.0	.3	.0	.3	.0	.0	.0	.0	.0 4.8
NNW	.0	.0	.0	2.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.8
CALM	.1	11.4													.1 11.4
TOTAL	.1	18.3	.5	66.1	.1	9.0	.0	4.5	.0	1.7	.0	.3	.0	.0	.7 100
															7.8

CEILING-VISIBILITY

WIND GRAPH

BRL BURLINGTON, IA

CLASS 6 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 6 / DAY

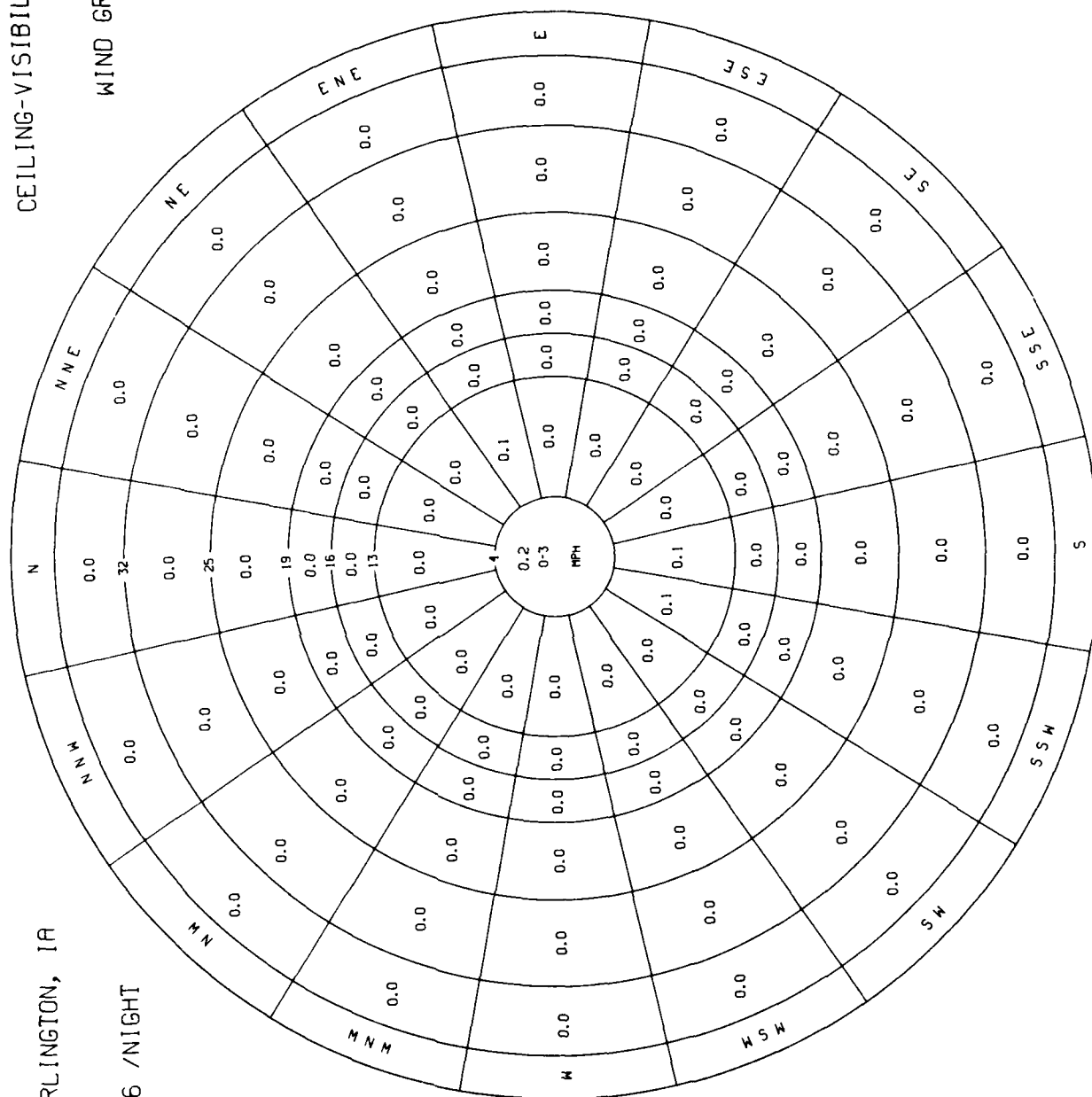
STATION NUMBER: 14931

NO. OBS.: 193

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	2.1	.0	1.6	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.1
NNE	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
NE	.0	.5	.0	6.7	.0	2.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	10.4
ENE	.0	.5	.0	6.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8
E	.0	.5	.0	5.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7
ESE	.0	1.0	.0	7.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3
SE	.0	.5	.0	6.7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.8
SSE	.0	1.0	.0	3.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
S	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7
SSW	.0	.5	.0	6.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3
SW	.0	.5	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
WSW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
W	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
WNW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	4.1
NW	.0	.5	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
NNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	2.1
CALM	.0	10.9													.0	10.9
TOTAL	.1	19.7	.3	69.9	.0	6.2	.0	.5	.0	2.6	.0	.5	.0	.5	.4	100
																7.3

BRL BURLINGTON, IA

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BRL BURLINGTON, IA

PERIOD: 1948-1978

CLASS 6 / NIGHT

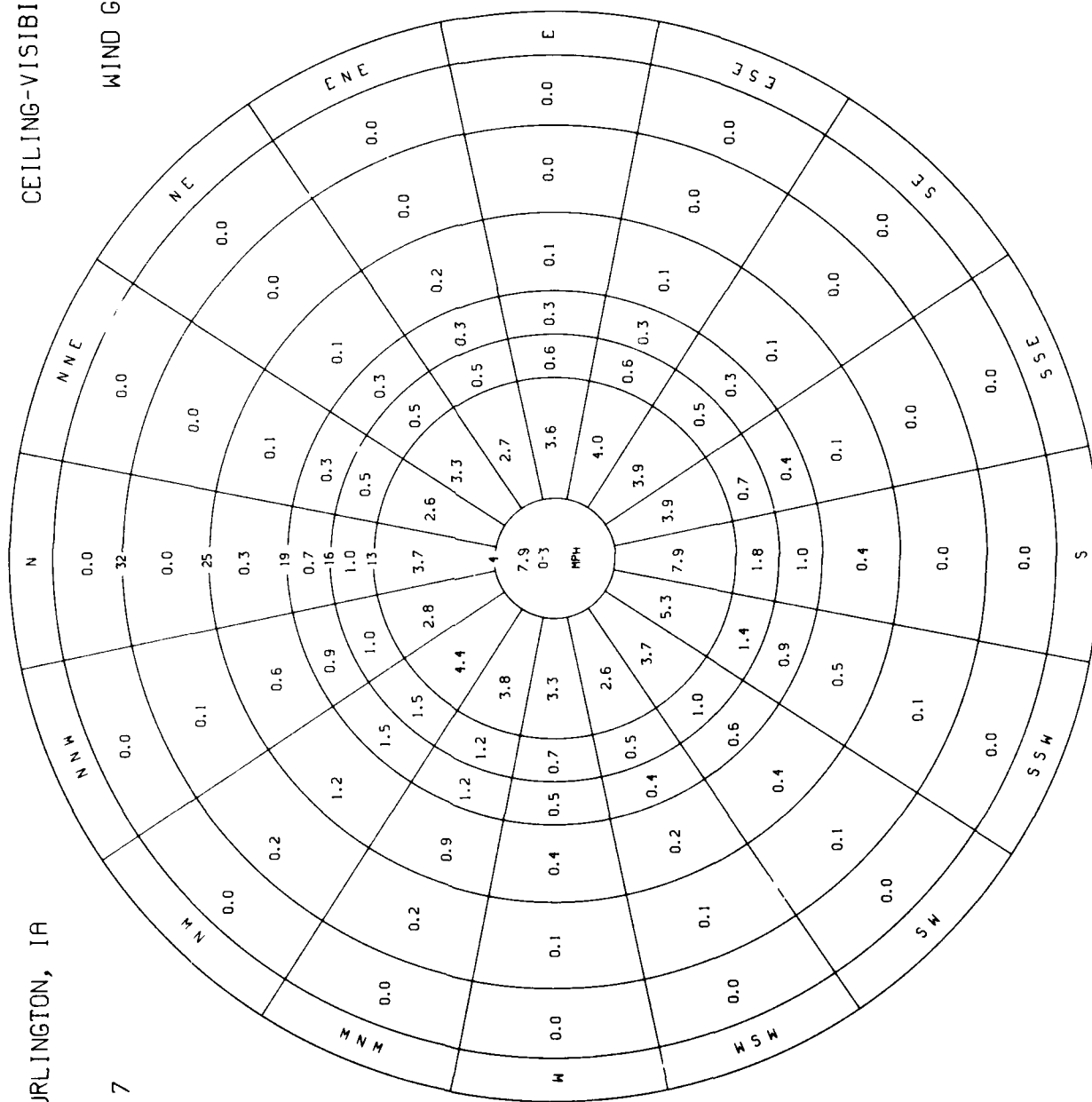
STATION NUMBER: 14931

NO. OBS.: 330

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0 2.7
NNE	.0	.0	.0	2.4	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0 3.3
NE	.0	.9	.0	3.6	.0	1.2	.0	.0	.0	.3	.0	.0	.0	.0	.0 6.1
ENE	.0	.3	.1	7.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1 8.2
E	.0	.9	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.7
ESE	.0	.6	.0	5.8	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.1 7.6
SE	.0	.3	.0	4.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
SSE	.0	.6	.0	3.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
S	.0	2.7	.1	7.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.0
SSW	.0	.9	.1	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.3
SW	.0	.6	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
WSW	.0	1.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
W	.0	.9	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.4
WNW	.0	.6	.0	2.1	.0	.6	.0	.3	.0	.0	.0	.0	.0	.3	.0 3.9
NW	.0	.6	.0	2.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0 3.6
NNW	.0	.6	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
CALM	.1	12.7													.1 12.7
TOTAL	.2	25.8	.5	66.4	.0	5.2	.0	.9	.0	.6	.0	.3	.0	.9	.8 100 6.6

BRL BURLINGTON, IA

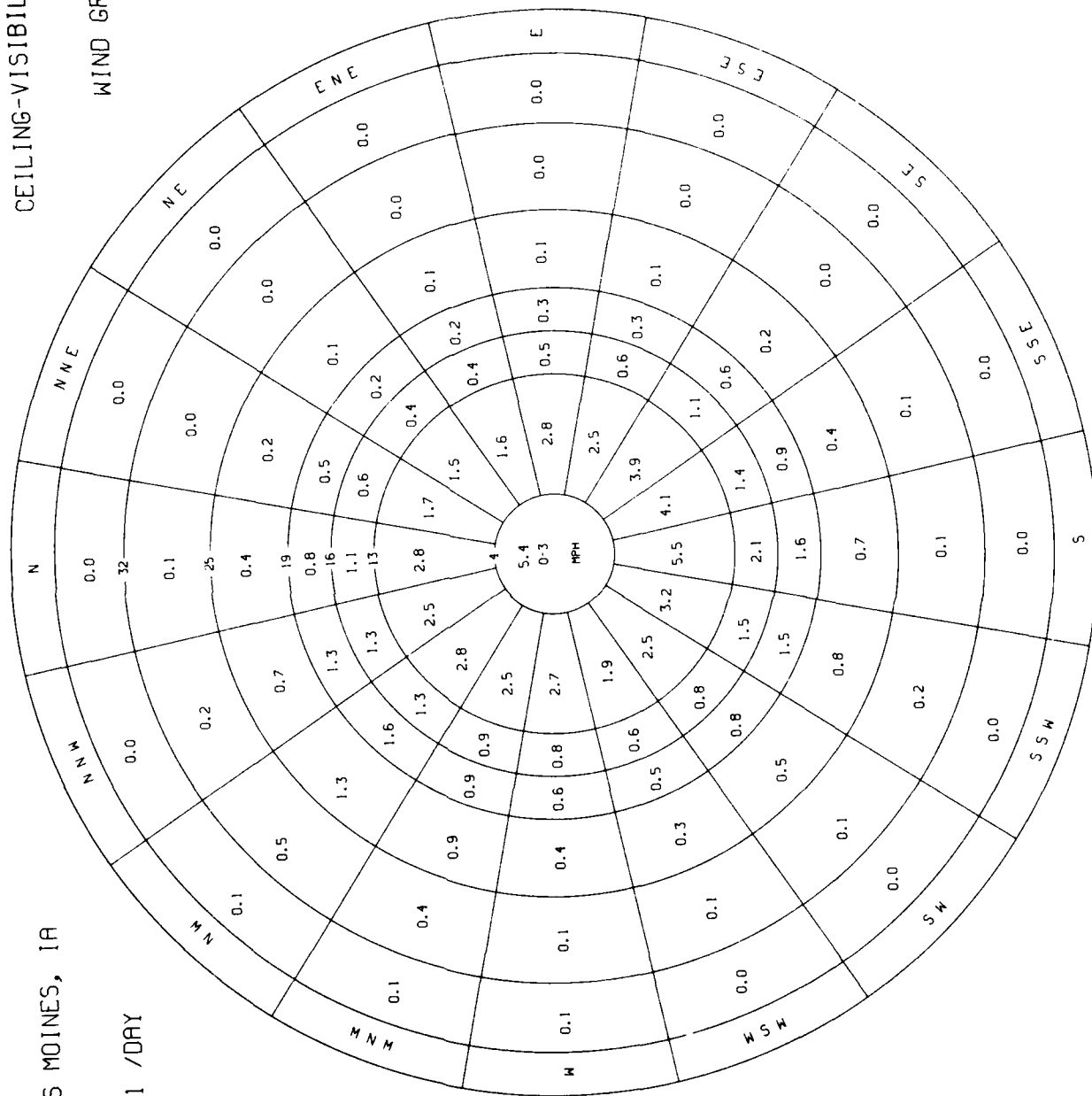
CLASS 7



WIND GRAPH

DSM DES MOINES, IA

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DSM DES MOINES, IA

CLASS 1 / DAY

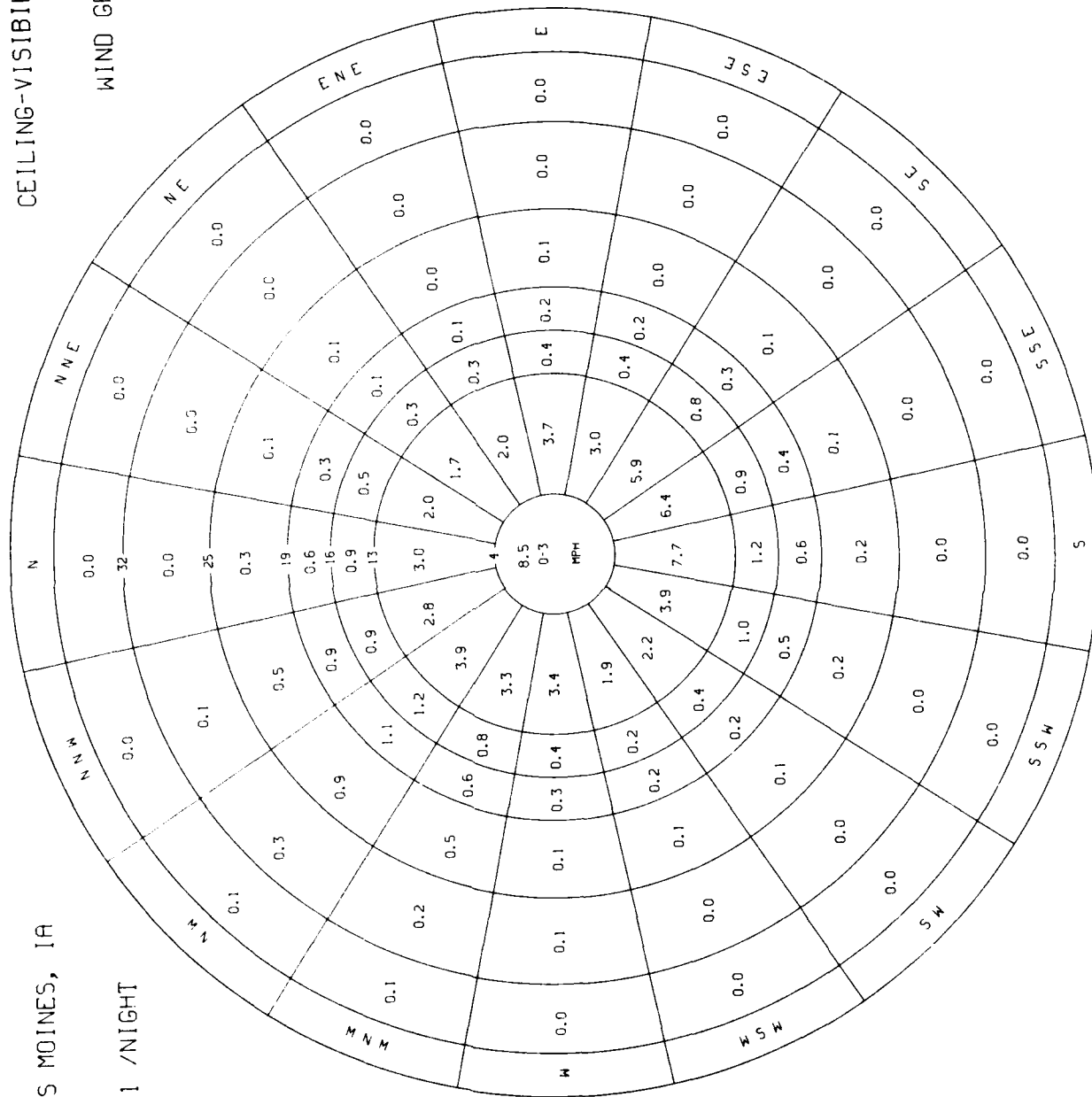
NO. OBS.: 43714

STATION NUMBER: 14933

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	2.8	3.2	1.1	1.2	.8	1.0	.4	.4	.1	.1	.0	.0	5.3	6.1	12.1
NNE	.2	.2	1.7	2.0	.6	.7	.5	.5	.2	.2	.0	.0	.0	.0	3.2	3.6	11.4
NE	.2	.2	1.5	1.7	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.7	10.3
ENE	.1	.2	1.6	1.8	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.7	9.9
E	.2	.2	2.8	3.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.9	4.5	9.8
ESE	.2	.2	2.5	2.9	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.7	4.2	10.2
SE	.3	.3	3.9	4.5	1.1	1.2	.6	.6	.2	.2	.0	.0	.0	.0	6.1	7.0	10.5
SSE	.2	.2	4.1	4.7	1.4	1.6	.9	1.1	.4	.4	.1	.1	.0	.0	7.0	8.0	11.5
S	.3	.4	5.5	6.3	2.1	2.4	1.6	1.9	.7	.9	.1	.1	.0	.0	10.4	11.9	12.1
SSW	.2	.2	3.2	3.7	1.5	1.7	1.5	1.7	.8	1.0	.2	.2	.0	.0	7.4	8.5	13.2
SW	.2	.3	2.5	2.9	.8	1.0	.8	.9	.5	.5	.1	.1	.0	.1	5.0	5.7	12.4
WSW	.2	.2	1.9	2.2	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	3.6	4.1	12.4
W	.3	.3	2.7	3.0	.8	.9	.6	.7	.4	.4	.1	.2	.1	.1	4.9	5.6	11.8
WNW	.2	.2	2.5	2.8	.9	1.1	.9	1.1	.9	1.0	.4	.5	.1	.2	6.0	6.8	14.4
NW	.2	.2	2.8	3.2	1.3	1.4	1.6	1.8	1.3	1.5	.5	.6	.1	.1	7.7	8.9	15.0
NNW	.1	.2	2.5	2.9	1.3	1.4	1.3	1.5	.7	.8	.2	.3	.0	.1	6.2	7.1	13.8
CALM	2.2	2.6													2.2	2.6	
TOTAL	5.4	6.2	44.4	50.9	15.2	17.4	12.6	14.4	7.2	8.2	2.0	2.3	.5	.6	87.4	100	12.0

DSM DES MOINES, IA

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14933

NO. OBS.: 35276

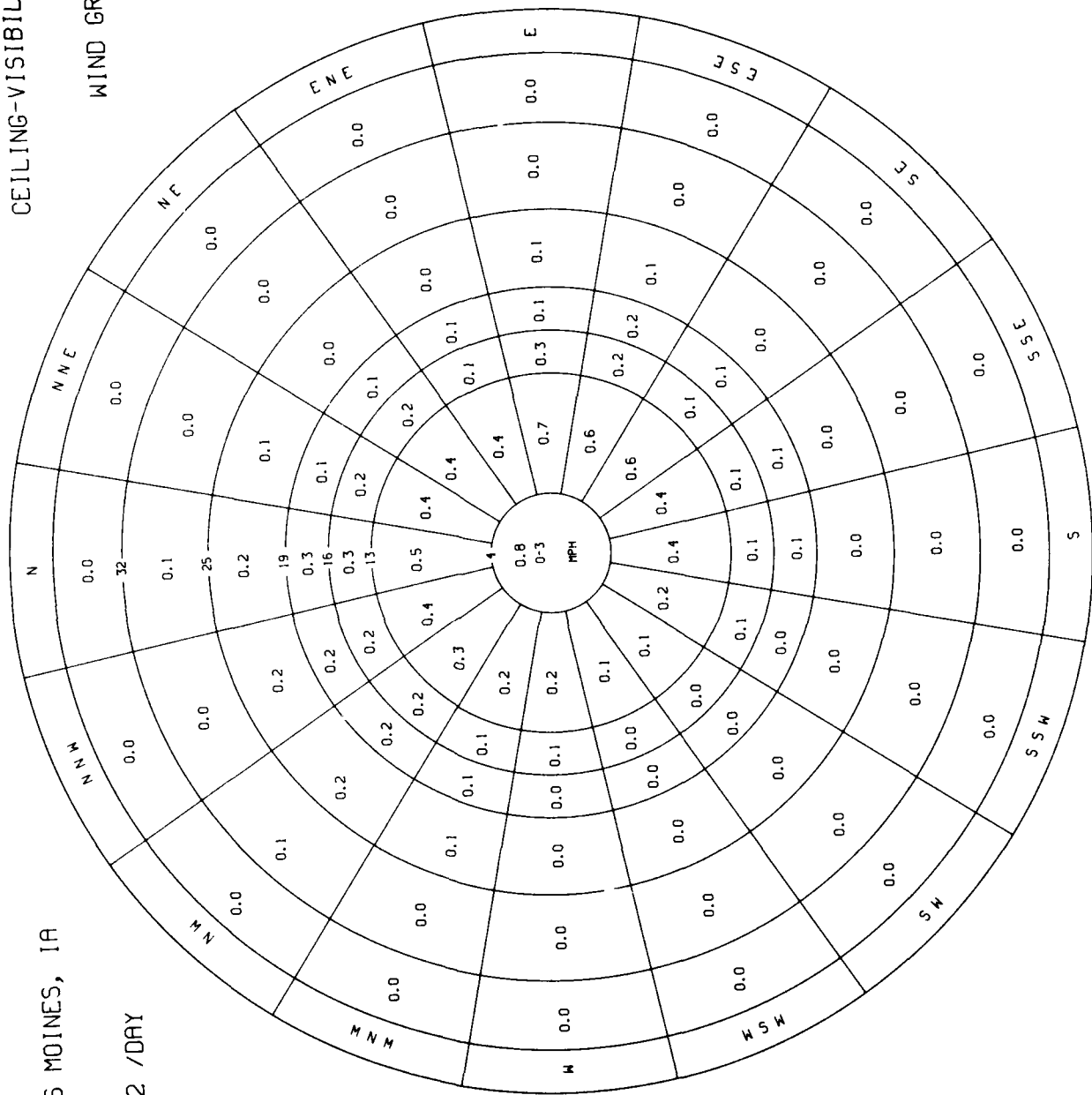
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.2	.3	3.0	3.4	.9	1.1	.6	.6	.3	.3	.0	.1	.0	.0	5.0	5.8	11.1
NNE	.2	.3	2.0	2.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.1	3.6	10.3
NE	.2	.3	1.7	1.9	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.4	2.8	9.2
ENE	.1	.2	2.0	2.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.5	2.9	8.9
E	.4	.5	3.7	4.2	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.7	5.4	8.4
ESE	.2	.2	3.0	3.5	.4	.5	.2	.3	.0	.0	.0	.0	.0	.0	3.9	4.5	9.5
SE	.4	.5	5.9	6.8	.8	.9	.3	.3	.1	.1	.0	.0	.0	.0	7.4	8.5	8.9
SSE	.3	.4	6.4	7.4	.9	1.1	.4	.5	.1	.1	.0	.0	.0	.0	8.2	9.4	9.3
S	.4	.5	7.7	8.9	1.2	1.3	.6	.7	.2	.2	.0	.0	.0	.0	10.1	11.7	9.6
SSW	.3	.3	3.9	4.5	1.0	1.2	.5	.6	.2	.3	.0	.0	.0	.0	6.0	6.9	10.5
SW	.3	.3	2.2	2.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.2	3.7	9.6
WSW	.2	.2	1.9	2.2	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.0	9.5
W	.5	.5	3.4	3.9	.4	.5	.3	.3	.1	.2	.1	.1	.0	.0	4.8	5.5	9.0
WNW	.3	.3	3.3	3.8	.8	1.0	.6	.7	.5	.6	.2	.2	.1	.1	5.9	6.7	11.9
NW	.3	.3	3.9	4.5	1.2	1.4	1.1	1.3	.9	1.0	.3	.3	.1	.1	7.7	8.9	12.7
NNW	.2	.2	2.8	3.2	.9	1.0	.9	1.0	.5	.6	.1	.1	.0	.0	5.4	6.2	12.3
CALM	4.0	4.7													4.1	4.7	
TOTAL	8.5	9.8	56.8	65.2	10.6	12.2	6.6	7.5	3.4	3.9	.9	1.0	.2	.3	87.0	100	9.7

CEILING-VISIBILITY

WIND GRAPH

DSM DES MOINES, IA

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DSM DES MOINES, IA

CLASS 2 / DAY

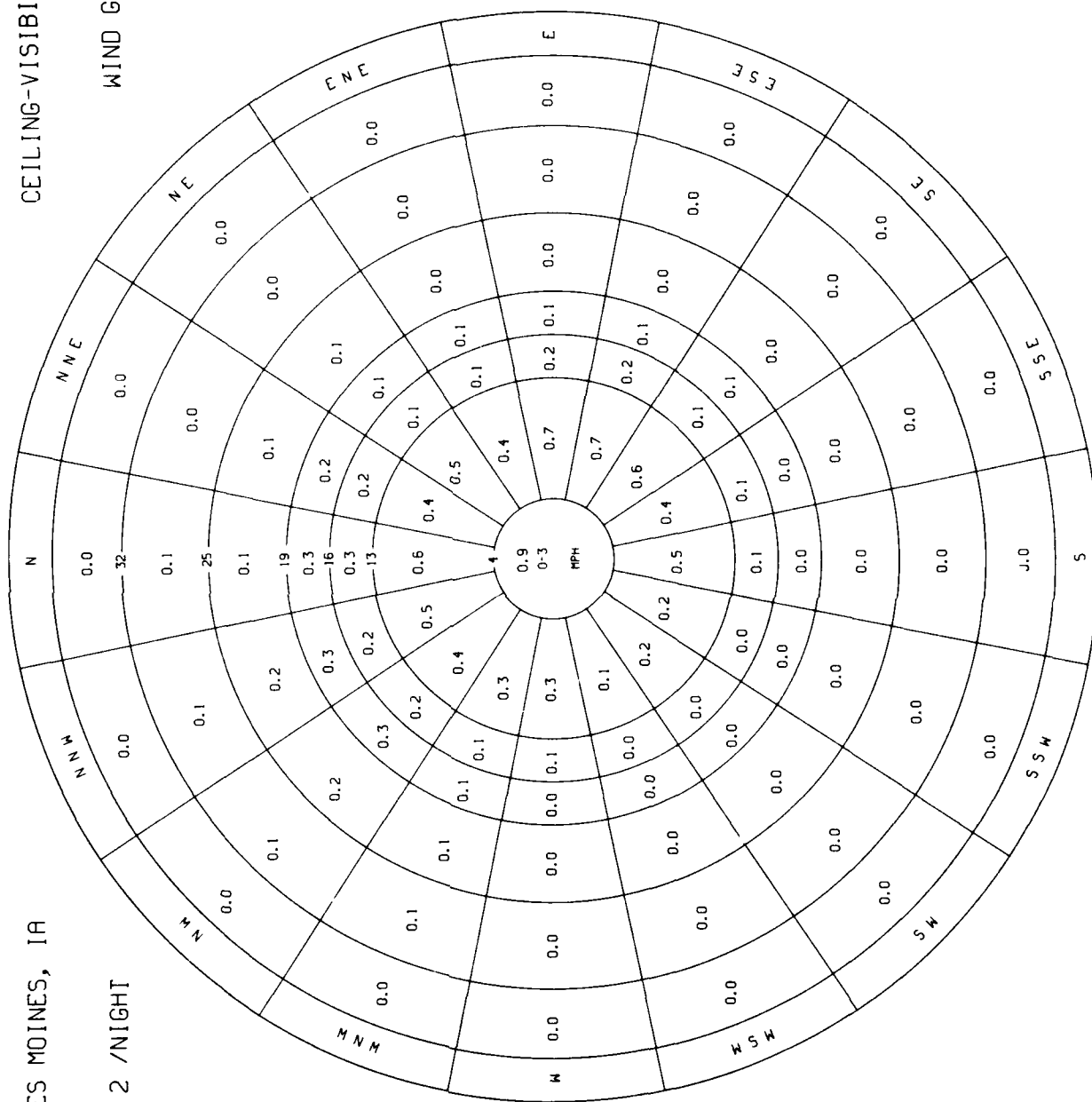
NO. OBS.: 6316

STATION NUMBER: 14933

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.5	4.2	.3	2.3	.3	2.0	.2	1.4	.1	.4	.0	.1	1.3 10.5
NNE	.0	.2	.4	3.5	.2	1.6	.1	1.1	.1	.6	.0	.1	.0	.0	.9 7.1
NNE	.0	.3	.4	3.2	.2	1.3	.1	.9	.0	.4	.0	.1	.0	.0	.8 6.1
ENE	.0	.2	.4	3.0	.1	1.1	.1	.9	.0	.4	.0	.1	.0	.0	.7 5.7
E	.0	.2	.7	5.7	.3	2.2	.1	1.0	.1	.5	.0	.1	.0	.0	1.2 9.7
ESE	.0	.2	.6	5.0	.2	1.9	.2	1.2	.1	.4	.0	.0	.0	.0	1.1 8.8
SE	.0	.4	.6	5.1	.1	1.0	.1	.7	.0	.1	.0	.0	.0	.0	.9 7.4
SSE	.0	.2	.4	3.5	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.7 5.3
S	.0	.3	.4	3.1	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.6 4.9
SSW	.0	.2	.2	1.8	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4 2.9
SW	.0	.1	.1	1.2	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3 2.0
WSW	.0	.1	.1	.9	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2 1.5
W	.0	.2	.2	2.0	.1	.5	.0	.3	.0	.2	.0	.1	.0	.0	.4 3.4
WNW	.0	.1	.2	2.0	.1	.8	.1	.8	.1	.8	.0	.3	.0	.1	.6 4.9
NNW	.0	.2	.3	2.5	.2	1.5	.2	1.8	.2	1.6	.1	.7	.0	.2	1.1 8.6
NNW	.0	.3	.4	3.0	.2	1.6	.2	1.8	.2	1.5	.0	.3	.0	.1	1.1 8.4
CALM	.4	2.9													.4 2.9
TOTAL	.8	6.2	6.3	49.7	2.4	18.6	1.8	14.2	1.1	8.4	.3	2.2	.1	.6	12.6 100
															12.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DES MOINES, IA

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14933

NO. OBS.: 5268

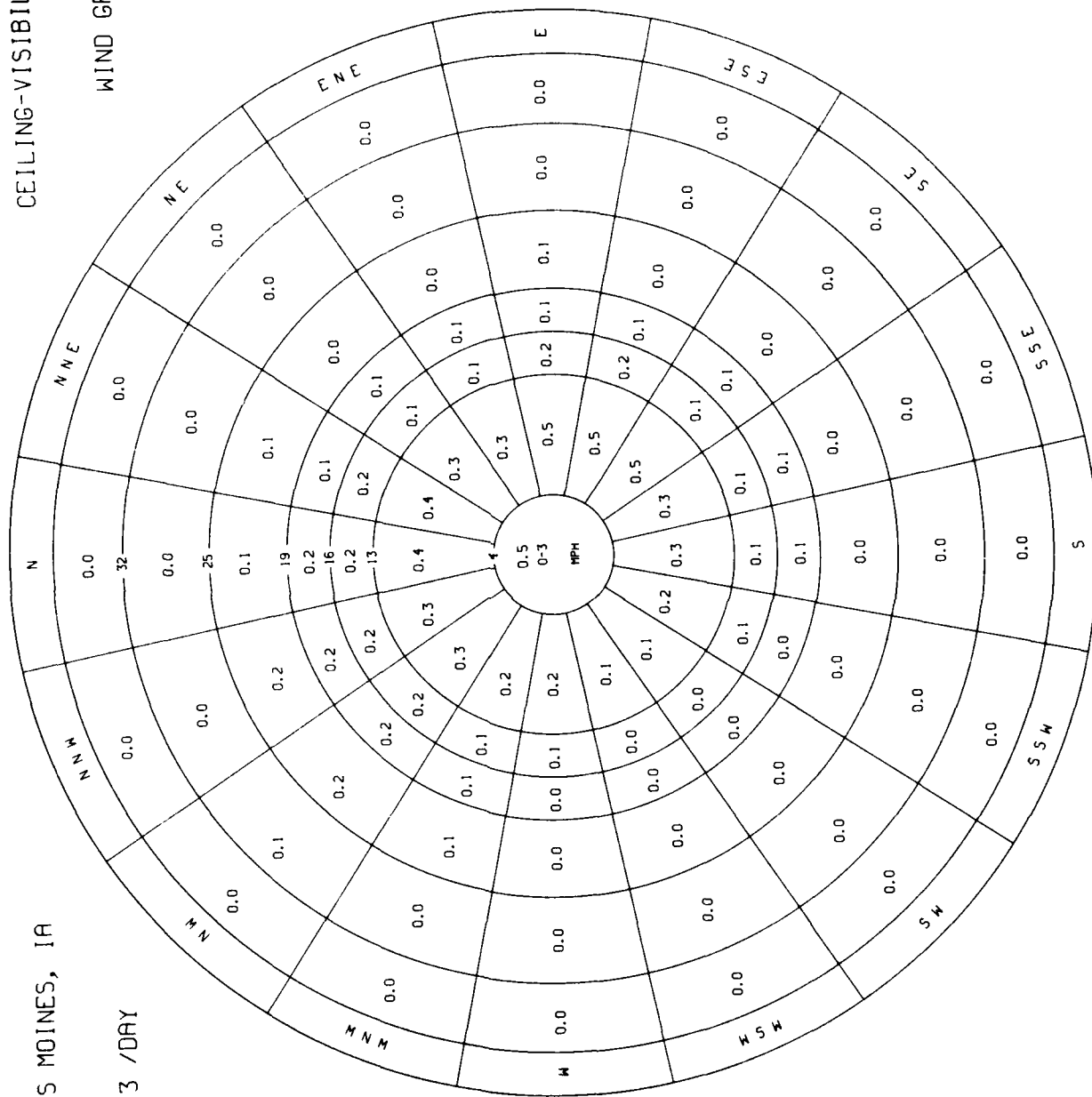
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.6	4.7	.3	2.3	.3	2.1	.1	1.1	.1	.4	.0	.0	1.4 11.0
NNE	.0	.2	.4	3.3	.2	1.7	.2	1.5	.1	.8	.0	.1	.0	.0	1.0 7.6
NNE	.0	.4	.5	3.6	.1	1.1	.1	.9	.1	.6	.0	.1	.0	.0	.9 6.7
ENE	.0	.2	.4	3.3	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.7 5.7
E	.0	.4	.7	5.7	.2	1.3	.1	.8	.0	.3	.0	.0	.0	.0	1.1 8.4
ESE	.0	.3	.7	5.3	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	1.0 8.0
SE	.0	.4	.6	4.8	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.9 6.8
SSE	.0	.2	.4	3.0	.1	.8	.0	.3	.0	.0	.0	.0	.0	.0	.6 4.3
S	.0	.3	.5	3.6	.1	.6	.0	.4	.0	.0	.0	.0	.0	.0	.6 4.9
SSW	.0	.2	.2	1.7	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.3 2.6
SW	.0	.2	.2	1.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.2 1.9
WSW	.0	.2	.1	1.1	.0	.2	.0	.1	.0	.1	.0	.1	.0	.0	.2 1.9
W	.0	.2	.3	2.2	.1	.4	.0	.2	.0	.2	.0	.1	.0	.0	.4 3.2
WNW	.0	.2	.3	2.0	.1	.6	.1	.8	.1	.7	.1	.5	.0	.2	.6 5.0
NW	.0	.2	.4	3.1	.2	1.4	.3	2.1	.2	1.7	.1	.6	.0	.1	1.2 9.1
NNW	.0	.1	.5	3.6	.2	1.9	.3	1.9	.2	1.5	.1	.4	.0	.0	1.2 9.6
CALM	.4	3.4													.4 3.4
TOTAL	.9	7.3	6.8	52.5	2.1	16.0	1.7	13.3	1.0	7.9	.3	2.5	.1	.5	13.0 100
															11.6

CEILING-VISIBILITY

WIND GRAPH

DSM DES MOINES, IA

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 3 / DAY

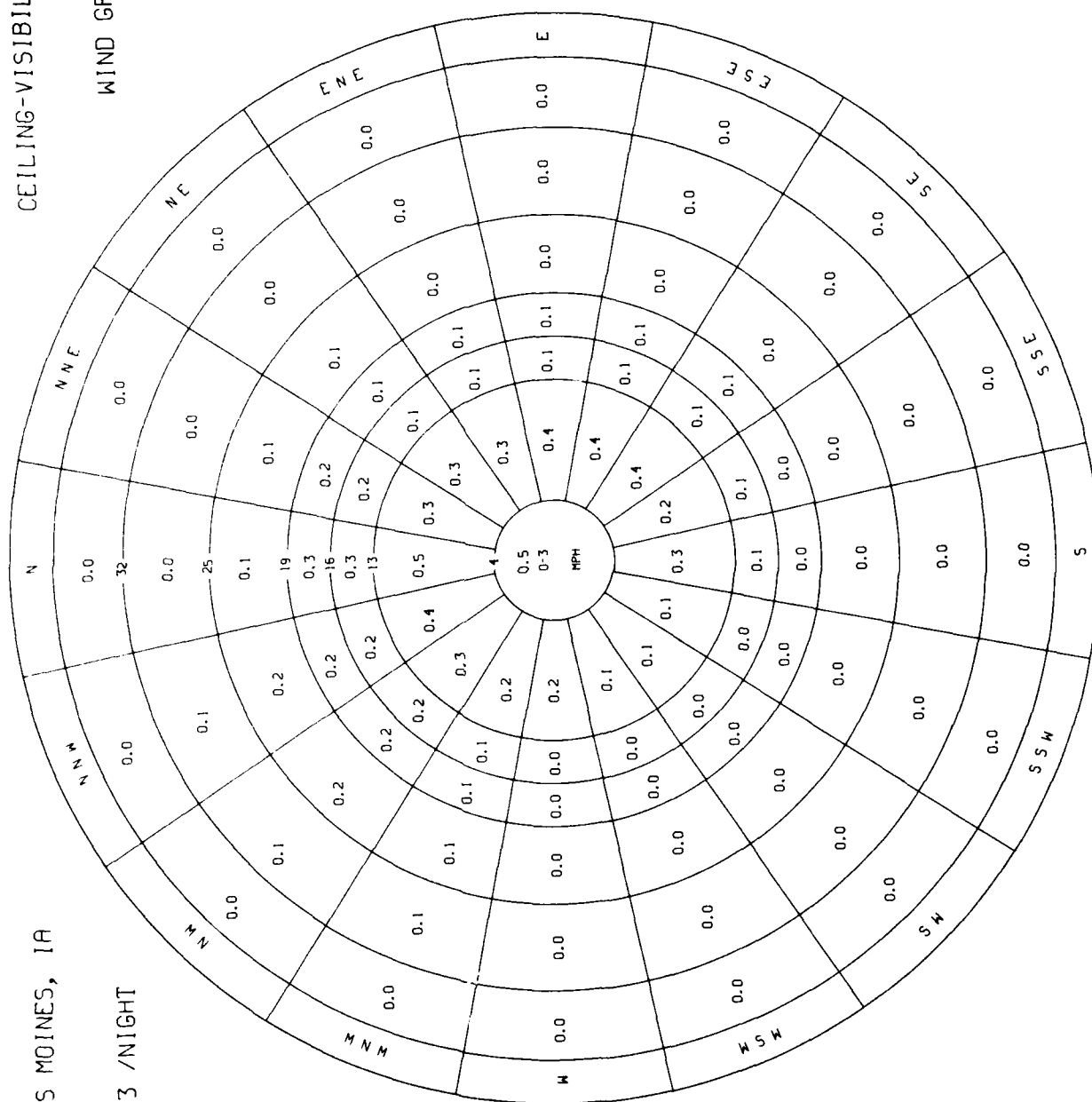
STATION NUMBER: 14933

NO. OBS.: 5090

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.1	.4	4.3	.2	2.4	.2	2.2	.1	1.5	.0	.4	.0	.0	1.1	10.9	14.1
NNE	.0	.1	.4	3.6	.2	1.7	.1	1.1	.1	.7	.0	.1	.0	.0	.7	7.3	12.7
NE	.0	.2	.3	3.2	.1	1.3	.1	.9	.0	.3	.0	.0	.0	.0	.6	6.1	11.9
ENE	.0	.2	.3	2.6	.1	1.0	.1	.9	.0	.4	.0	.1	.0	.0	.5	5.3	12.2
E	.0	.2	.5	5.0	.2	1.8	.1	.9	.1	.6	.0	.1	.0	.0	.9	8.5	11.7
ESE	.0	.2	.5	4.4	.2	1.9	.1	1.4	.0	.5	.0	.0	.0	.1	.9	8.4	12.3
SE	.0	.2	.5	4.6	.1	1.1	.1	.8	.0	.2	.0	.0	.0	.0	.7	6.9	10.7
SSE	.0	.1	.3	3.1	.1	1.1	.1	.6	.0	.1	.0	.0	.0	.0	.5	5.0	10.8
S	.0	.3	.3	3.1	.1	.9	.1	.7	.0	.1	.0	.0	.0	.0	.5	5.1	10.9
SSW	.0	.1	.2	1.8	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.3	3.0	11.0
SW	.0	.1	.1	1.0	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.2	1.9	11.7
WSW	.0	.1	.1	.9	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.2	1.6	10.7
W	.0	.2	.2	2.1	.1	.7	.0	.3	.0	.2	.0	.1	.0	.1	.4	3.6	11.7
WNW	.0	.1	.2	2.0	.1	.9	.1	.9	.1	1.0	.0	.3	.0	.1	.5	5.4	15.1
NW	.0	.2	.3	2.5	.2	1.8	.2	2.1	.2	1.9	.1	.8	.0	.2	1.0	9.5	16.2
NNW	.0	.3	.3	3.1	.2	1.9	.2	2.0	.2	1.7	.0	.3	.0	.1	1.0	9.5	14.7
CALM	.2	2.2													.2	2.2	
TOTAL	.5	5.0	4.8	47.3	2.0	19.9	1.6	15.5	1.0	9.4	.2	2.3	.1	.6	10.2	100	12.5

DSM DES MOINES, IA

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14933

NO. OBS.: 3893

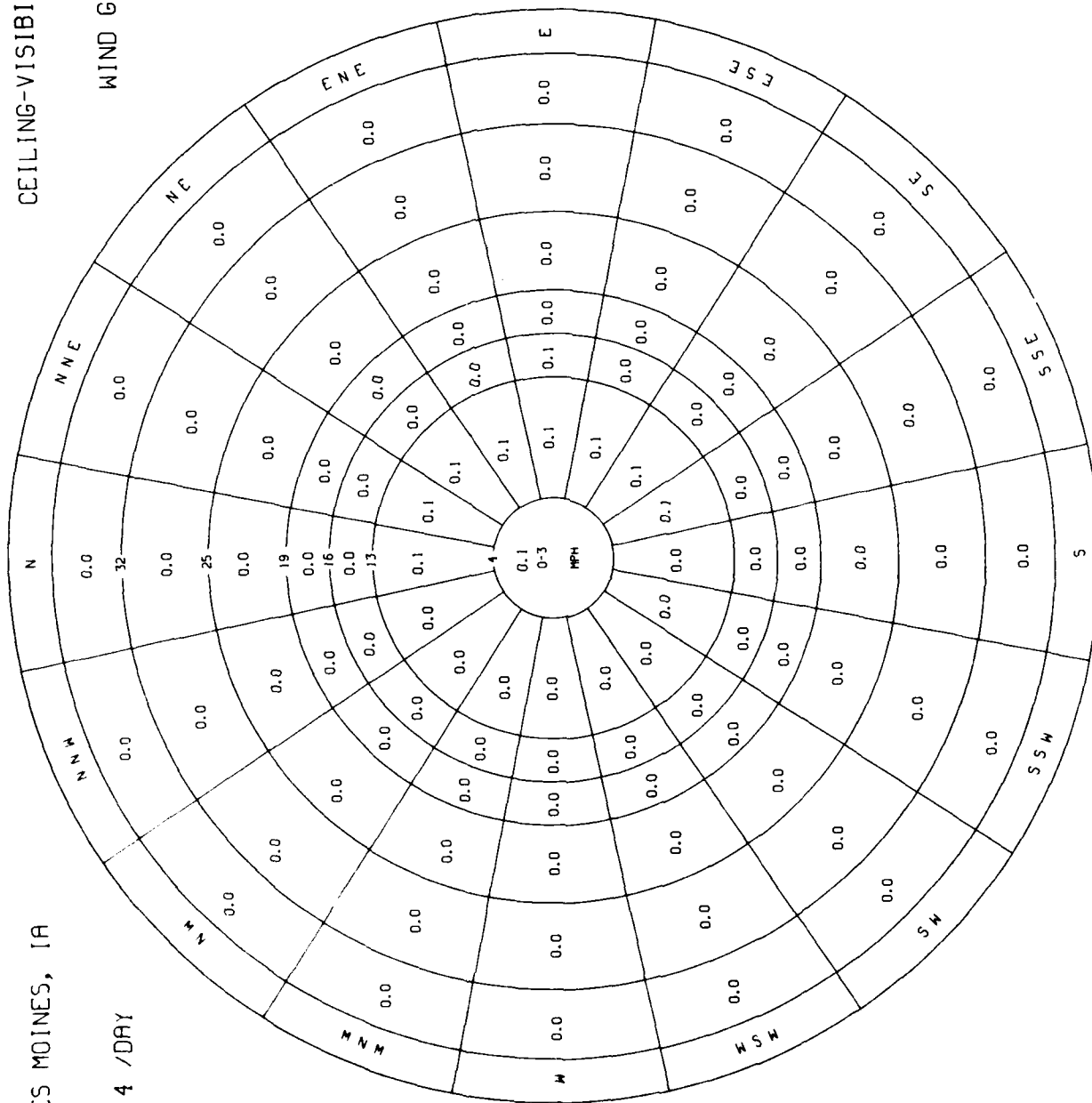
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.5	5.1	.3	2.9	.3	2.7	.1	1.3	.0	.4	.0	.0	1.2	12.6	13.6		
NNE	.0	.2	.3	3.4	.2	2.0	.2	1.8	.1	.9	.0	.1	.0	.1	.8	8.5	13.5		
NE	.0	.4	.3	3.4	.1	1.1	.1	1.0	.1	.8	.0	.1	.0	.0	.6	6.7	12.2		
ENE	.0	.1	.3	3.0	.1	1.1	.1	.8	.0	.4	.0	.2	.0	.0	.5	5.5	12.1		
E	.0	.2	.4	4.2	.1	1.4	.1	.8	.0	.3	.0	.1	.0	.0	.7	7.0	11.1		
ESE	.0	.3	.4	4.2	.1	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.6	6.7	11.3		
SE	.0	.3	.4	4.4	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.6	6.2	10.0		
SSE	.0	.1	.2	2.4	.1	.8	.0	.4	.0	.0	.0	.0	.0	.0	.4	3.7	10.5		
S	.0	.2	.3	3.0	.1	.6	.0	.4	.0	.0	.0	.0	.0	.0	.4	4.2	9.9		
SSW	.0	.1	.1	1.5	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.2	2.5	11.4		
SW	.0	.1	.1	1.2	.0	.3	.0	.2	.0	.1	.0	.1	.0	.0	.2	1.9	10.5		
WSW	.0	.1	.1	.9	.0	.3	.0	.2	.0	.1	.0	.1	.0	.0	.2	1.7	12.2		
W	.0	.2	.2	2.1	.0	.5	.0	.3	.0	.2	.0	.1	.0	.0	.3	3.2	10.4		
WNW	.0	.2	.2	1.9	.1	.7	.1	1.0	.1	.9	.1	.6	.0	.2	.5	5.4	16.3		
NW	.0	.2	.3	3.3	.2	1.6	.2	2.6	.2	2.2	.1	.7	.0	.1	1.0	10.6	15.7		
NNW	.0	.2	.4	4.0	.2	2.2	.2	2.3	.2	2.0	.1	.5	.0	.0	1.1	11.3	14.7		
CALM	.2	2.2													.2	2.2			
TOTAL	.5	5.2	4.6	48.0	1.7	17.7	1.5	16.0	.9	9.8	.3	3.0	.0	.4	9.6	100	12.6		

CEILING-VISIBILITY

WIND GRAPH

DSM DES MOINES, IA

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14933

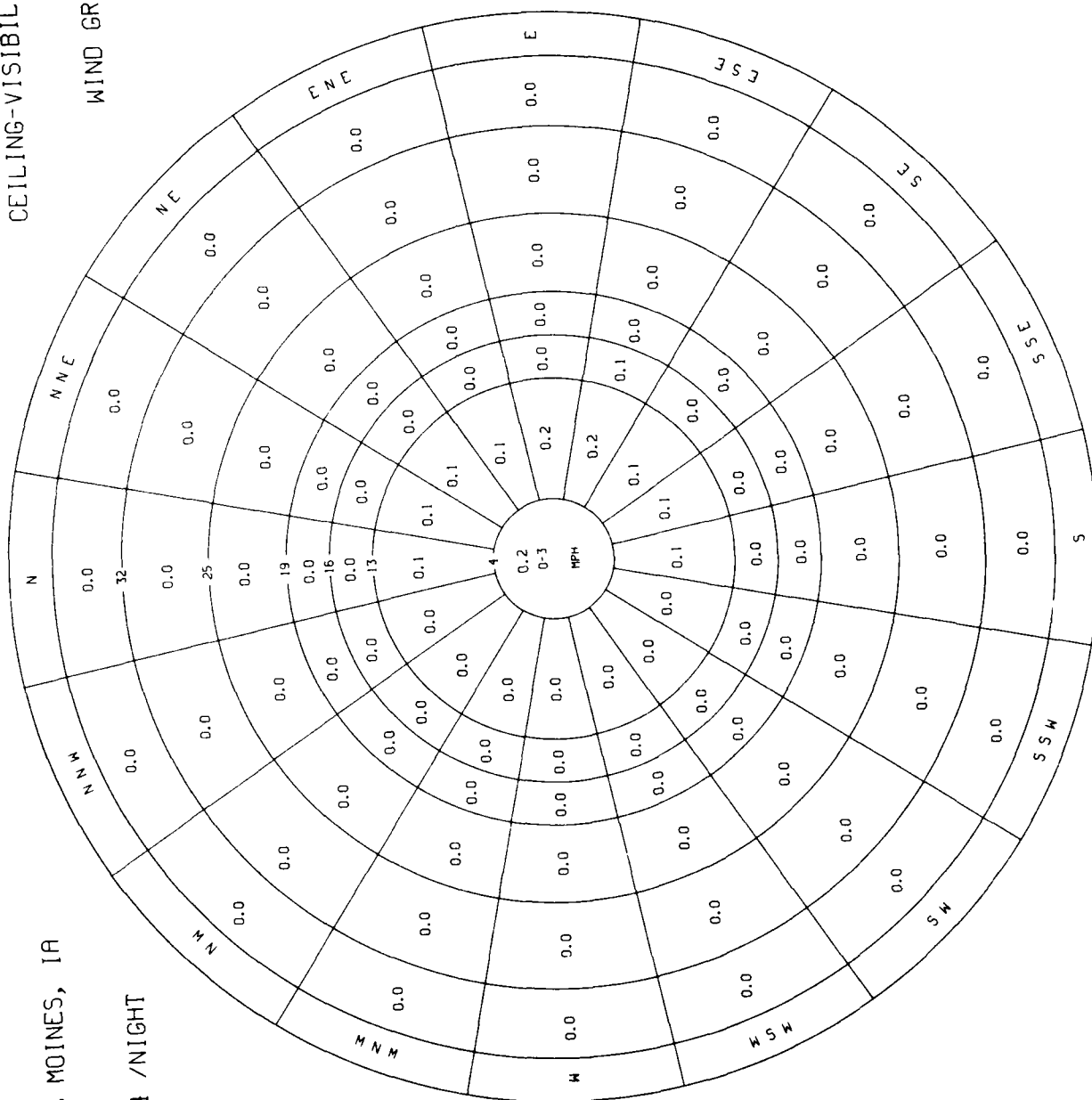
NO. OBS.: 844

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.1	4.1	.0	2.0	.0	1.9	.0	1.3	.0	.4	.0	.1	.2	10.1	13.6
NNE	.0	.2	.1	3.7	.0	1.2	.0	1.3	.0	.6	.0	.1	.0	.0	.1	7.1	11.9
NE	.0	.4	.1	3.3	.0	1.1	.0	1.2	.0	.8	.0	.2	.0	.0	.1	7.0	12.9
ENE	.0	.2	.1	4.9	.0	2.1	.0	.6	.0	.4	.0	.0	.0	.0	.1	8.2	10.9
E	.0	.2	.1	8.3	.1	3.8	.0	2.0	.0	.6	.0	.0	.0	.0	.3	14.9	11.4
ESE	.0	.4	.1	8.3	.0	2.1	.0	.7	.0	.4	.0	.0	.0	.0	.2	11.8	10.4
SE	.0	.7	.1	5.9	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.1	8.4	9.0
SSE	.0	.2	.1	4.7	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.1	5.8	8.8
S	.0	.4	.0	2.4	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.1	3.6	9.3
SSW	.0	.6	.0	1.7	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.7	8.1
SW	.0	.0	.0	1.4	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.9	10.8
WSW	.0	.0	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	9.1
W	.0	.0	.0	1.5	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	1.9	10.2
WNW	.0	.1	.0	1.7	.0	.5	.0	.4	.0	.0	.0	.1	.0	.2	.0	3.0	12.6
NW	.0	.2	.0	2.4	.0	.2	.0	.6	.0	.9	.0	.4	.0	.2	.1	5.0	14.7
NNW	.0	.0	.0	1.9	.0	.2	.0	.9	.0	.2	.0	.4	.0	.0	.1	3.7	14.1
CALM	.1	3.9													.1	3.9	
TOTAL	.1	7.8	1.0	57.0	.3	16.1	.2	11.4	.1	5.5	.0	1.7	.0	.6	.1	7	100
																	10.9

DSM DES MOINES, IA

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DSM DES MOINES, IA

CLASS 4 / NIGHT

NO. OBS.: 831

STATION NUMBER: 14933

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.6	.1	5.2	.0	1.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	.2	8.2	11.0
NNE	.0	.1	.1	3.6	.0	.7	.0	.8	.0	.8	.0	.1	.0	.0	.0	.1	6.3	12.5
NE	.0	.4	.1	4.2	.0	1.4	.0	.7	.0	.4	.0	.1	.0	.1	.0	.2	7.3	11.2
ENE	.0	.1	.1	4.6	.0	1.4	.0	.7	.0	.4	.0	.0	.0	.0	.0	.1	7.2	10.6
E	.0	.8	.2	9.6	.0	1.2	.0	1.0	.0	.1	.0	.0	.0	.0	.0	.3	12.8	9.6
ESE	.0	.5	.2	7.8	.1	2.5	.0	.6	.0	.1	.0	.0	.0	.0	.0	.2	11.6	10.0
SE	.0	.4	.1	4.8	.0	1.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.2	7.5	10.2
SSE	.0	.4	.1	4.7	.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	6.1	8.7
S	.0	.7	.1	4.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	6.3	9.1
SSW	.0	.1	.0	1.9	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	2.5	8.7
SW	.0	.1	.0	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.2
WSW	.0	.1	.0	1.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.8	11.3
W	.0	.2	.0	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.8	7.6
WNW	.0	.5	.0	1.9	.0	.5	.0	.4	.0	.4	.0	.1	.0	.2	.0	.1	4.0	12.5
NW	.0	.1	.0	2.2	.0	.6	.0	.5	.0	.4	.0	.6	.0	.2	.0	.1	4.6	15.2
NNW	.0	.0	.0	2.4	.0	1.3	.0	1.3	.0	.5	.0	.0	.0	.0	.1	.1	5.7	13.2
CALM	.1	4.3														.1	4.3	
TOTAL	.2	9.5	1.3	61.9	.3	14.4	.2	8.3	.1	3.6	.0	1.4	.0	.8	2.0	10.2	10.2	

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14933

NO. OBS.: 831

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.1	5.2	.0	1.0	.0	.5	.0	.5	.0	.5	.0	.0	.2 8.2
NNE	.0	.1	.1	3.6	.0	.7	.0	.8	.0	.8	.0	.1	.0	.0	.1 6.3
NE	.0	.4	.1	4.2	.0	1.4	.0	.7	.0	.4	.0	.1	.0	.1	.2 7.3
ENE	.0	.1	.1	4.6	.0	1.4	.0	.7	.0	.4	.0	.0	.0	.0	.1 7.2
E	.0	.8	.2	9.6	.0	1.2	.0	1.0	.0	.1	.0	.0	.0	.0	.3 12.8
ESE	.0	.5	.2	7.8	.1	2.5	.0	.6	.0	.1	.0	.0	.0	.0	.2 11.6
SE	.0	.4	.1	4.8	.0	1.3	.0	1.0	.0	.0	.0	.0	.0	.0	.2 7.5
SSE	.0	.4	.1	4.7	.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.1
S	.0	.7	.1	4.5	.0	.6	.0	.5	.0	.0	.0	.0	.0	.0	.1 6.3
SSW	.0	.1	.0	1.9	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1 2.5
SW	.0	.1	.0	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	.1	.0	1.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0 1.8
W	.0	.2	.0	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.8
WNW	.0	.5	.0	1.9	.0	.5	.0	.4	.0	.4	.0	.1	.0	.2	.1 4.0
NW	.0	.1	.0	2.2	.0	.6	.0	.5	.0	.4	.0	.6	.0	.2	.1 4.6
NNW	.0	.0	.0	2.4	.0	1.3	.0	1.3	.0	.5	.0	.0	.0	.1	.1 5.7
CALM	.1	4.3													.1 4.3
TOTAL	.2	9.5	1.3	61.9	.3	14.4	.2	8.3	.1	3.6	.0	1.4	.0	.8	2.0 10.2

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DSM DES MOINES, IA

CLASS 5 / DAY

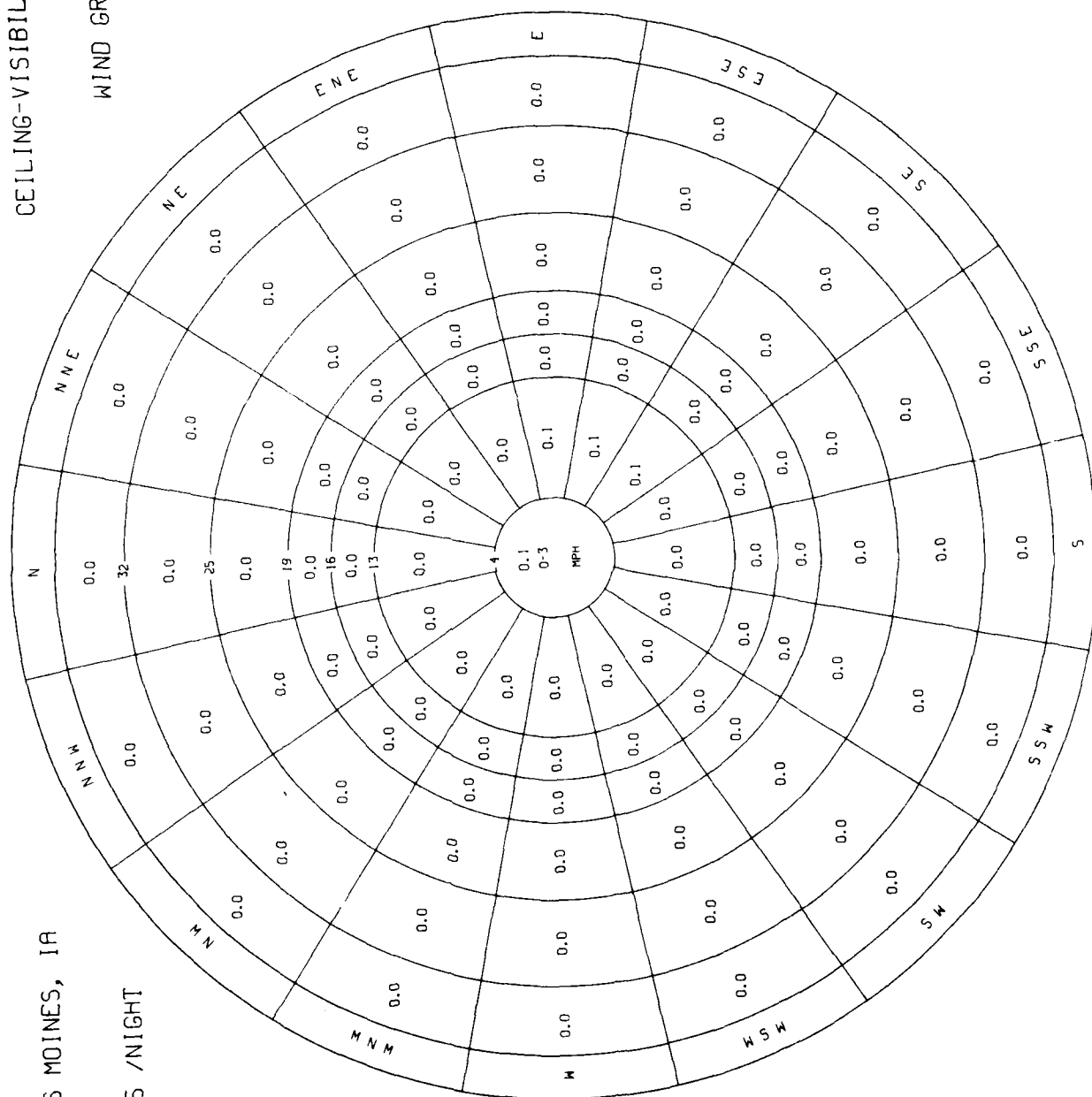
NO. OBS.: 186

STATION NUMBER: 14933

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	4.3	.0	.5	.0	.0	.0	.5	.0	1.1	.0	.5	.0	7.0	14.2
NNE	.0	.5	.0	2.2	.0	.0	.0	.5	.0	.0	.0	1.1	.0	.0	.0	4.3	14.6
NE	.0	.5	.0	2.2	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	4.3	11.4
ENE	.0	.0	.0	4.3	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	5.9	10.2
E	.0	1.1	.0	12.9	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.1	18.3	9.3
ESE	.0	.5	.0	8.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	8.4
SE	.0	1.1	.0	8.6	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	10.2	7.4
SSE	.0	1.1	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.1
S	.0	1.6	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.0
SSW	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.7
SW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.0
WSW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.5
W	.0	.0	.0	2.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.7	9.2
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.0
NW	.0	1.1	.0	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
NNW	.0	.0	.0	4.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0	5.4	12.0
CALM	.0	8.6													.0	8.6	
TOTAL	.1	16.7	.3	68.3	.0	7.0	.0	3.8	.0	1.1	.0	2.2	.0	1.1	.4	100	8.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES. 1A

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14933

NO. OBS.: 270

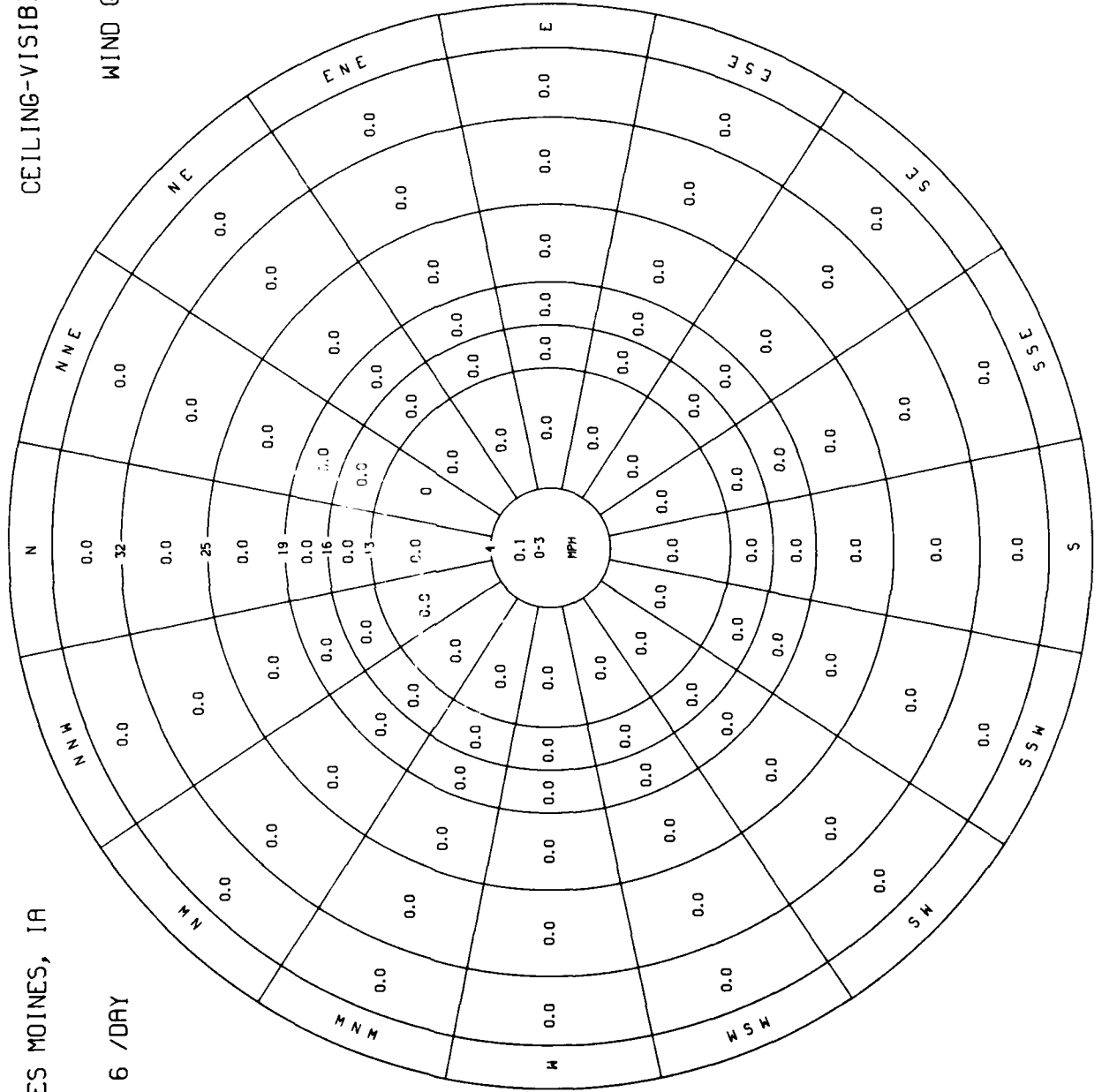
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.4	.0	1.9	.0	1.1	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	4.1	11.7
NNE	.0	.0	.0	2.6	.0	.7	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	3.7	10.8
NE	.0	.4	.0	3.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.6
ENE	.0	.4	.0	3.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.4
E	.0	.0	.1	10.7	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.1	12.6	8.8
ESE	.0	.4	.1	10.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	11.9	8.6
SE	.0	1.1	.1	11.5	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	14.4	8.6
SSE	.0	.0	.0	2.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	9.4
S	.0	.0	.0	5.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	8.7
SSW	.0	.4	.0	3.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.1
SW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.0
WSW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.7
W	.0	.4	.0	3.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	4.8	9.6
WNW	.0	.0	.0	3.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.6
NW	.0	.7	.0	2.6	.0	.7	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	5.6	11.8
NNW	.0	.0	.0	1.9	.0	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3.0	11.0
CALM	.1	10.0														.1	10.0	
TOTAL	.1	14.8	.5	68.5	.1	10.0	.0	3.3	.0	2.2	.0	1.1	.0	.0	.0	.7	100	8.2

CEILING-VISIBILITY

WIND GRAPH

DSM DES MOINES, IA

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14933

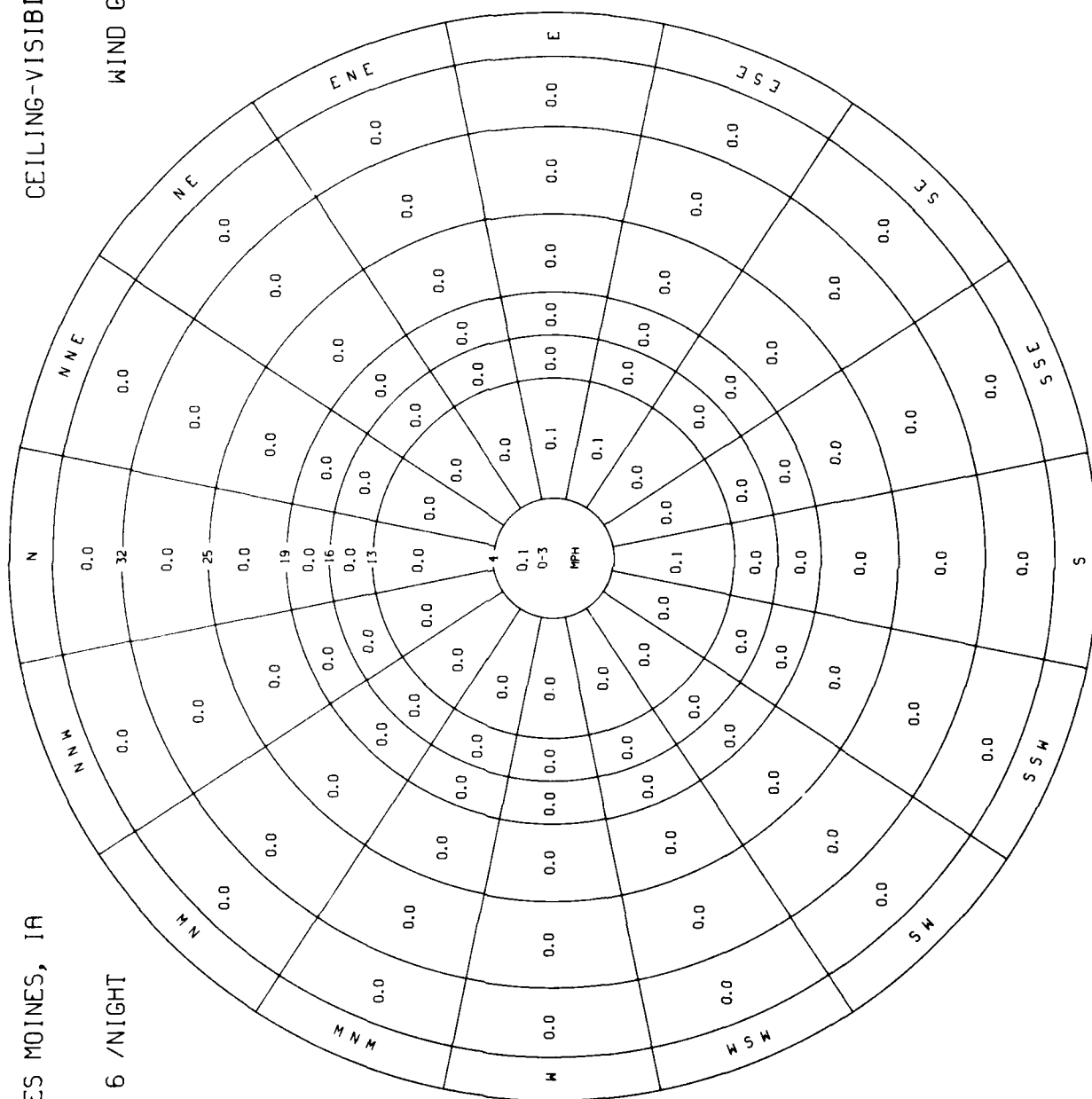
NO. OBS.: 196

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.0	.0	1.0	.0	.5	.0	.0	.0	1.0	.0	1.0	.0	1.5	.0	5.1	24.5
NNE	.0	.5	.0	2.0	.0	1.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	4.6	11.6
NE	.0	.5	.0	3.1	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.0	5.1	9.8
ENE	.0	1.0	.0	2.6	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.6	8.8
E	.0	.0	.0	8.7	.0	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	11.2	9.2
ESE	.0	.0	.0	2.6	.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.6	11.3
SE	.0	2.0	.0	9.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	7.6
SSE	.0	.5	.0	9.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	7.6
S	.0	.0	.0	4.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.6	8.3
SSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.8
SW	.0	1.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.9
WSW	.0	.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0
W	.0	3.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	3.9
WNW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.0
NW	.0	.5	.0	4.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.9
NNW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.6	9.0
CALM	.0	12.2													.0	12.2	
TOTAL	.1	21.9	.2	62.8	.0	7.1	.0	2.6	.0	2.0	.0	2.0	.0	1.5	.4	100	8.0

CEILING-VISIBILITY

WIND GRAPH

DSM DES MOINES, IA
CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DSM DES MOINES, IA

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14933

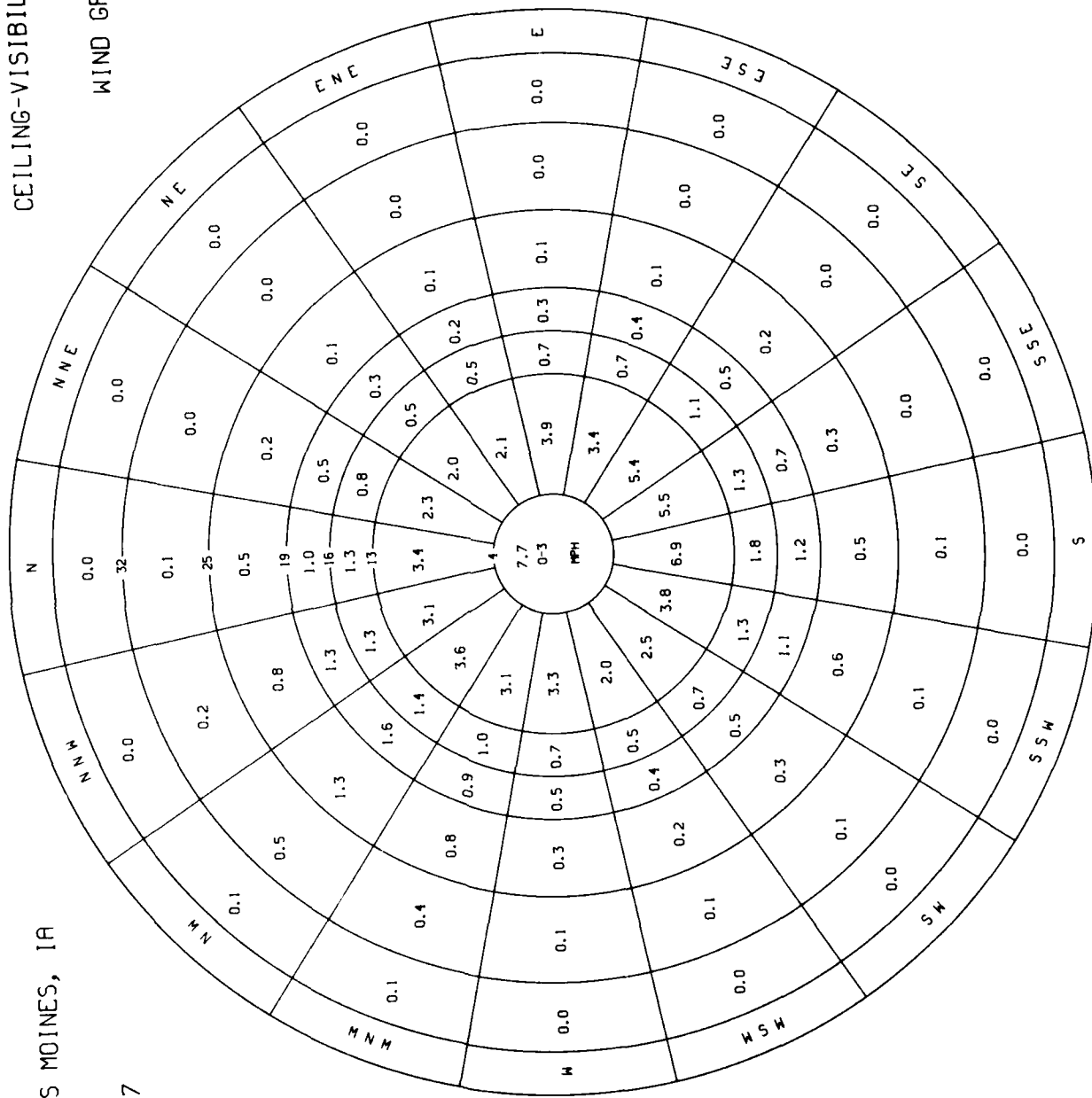
NO. OBS.: 274

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0 2.9
NNE	.0	.0	.0	1.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
NE	.0	.0	.0	5.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
ENE	.0	1.1	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
E	.0	1.1	.1	9.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 11.3
ESE	.0	1.1	.1	8.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.1 10.6
SSE	.0	.7	.0	5.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.2
S	.0	.4	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.9
SSW	.0	.4	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.9
SW	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
WSW	.0	1.5	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
WNW	.0	.7	.0	2.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
NW	.0	.4	.0	4.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.6
NNW	.0	.4	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.6
CALM	.1	12.0													.1 12.0
TOTAL	.1	21.5	.5	73.4	.0	3.3	.0	.7	.0	.4	.0	.4	.0	.4	.7 100

CEILING-VISIBILITY WIND GRAPH

DSM DES MOINES, IA

CLASS 7

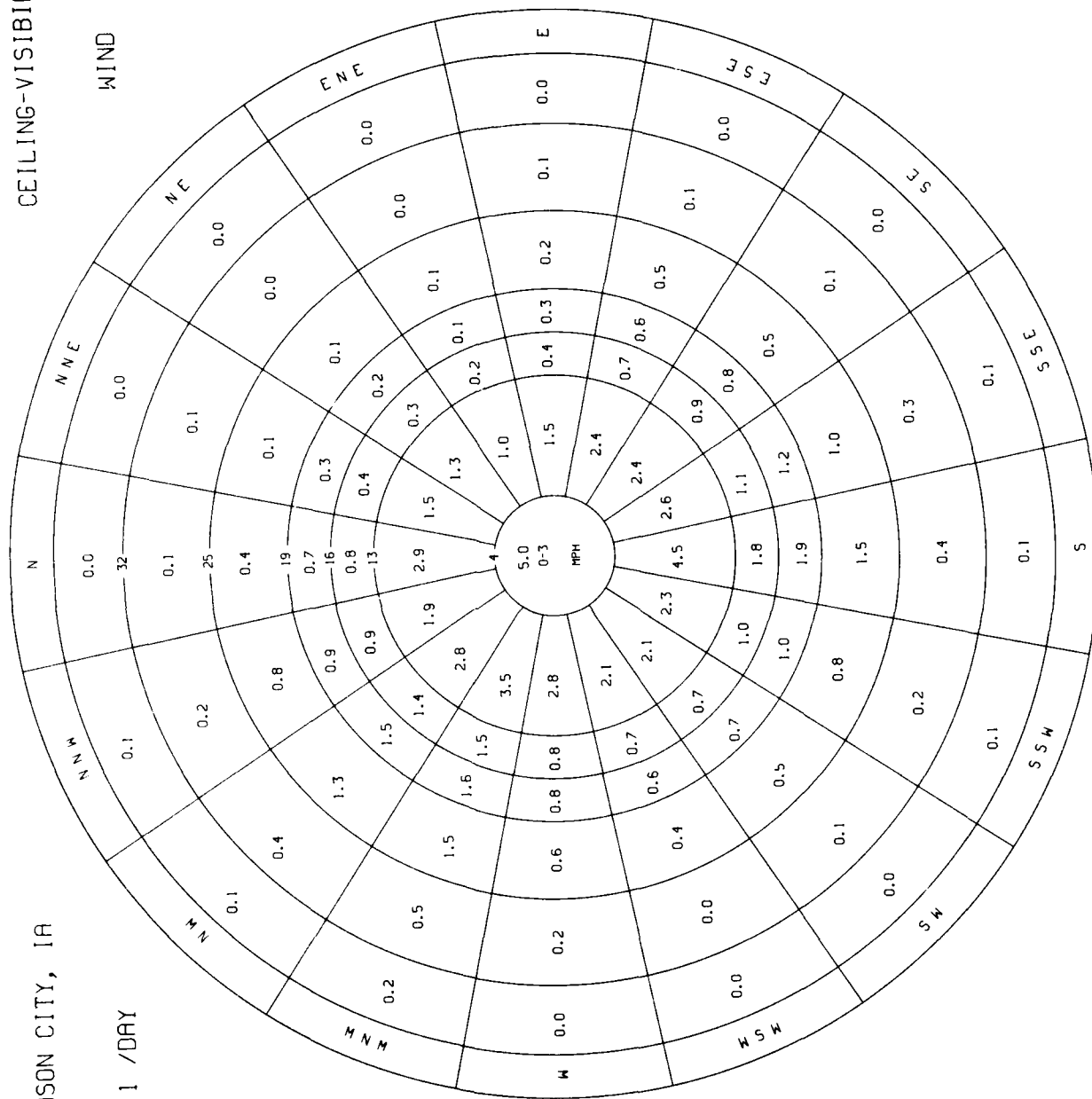


CEILING-VISIBILITY

WIND MPH

MCW MASON CITY, IA

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14940

NO. OBS.: 40659

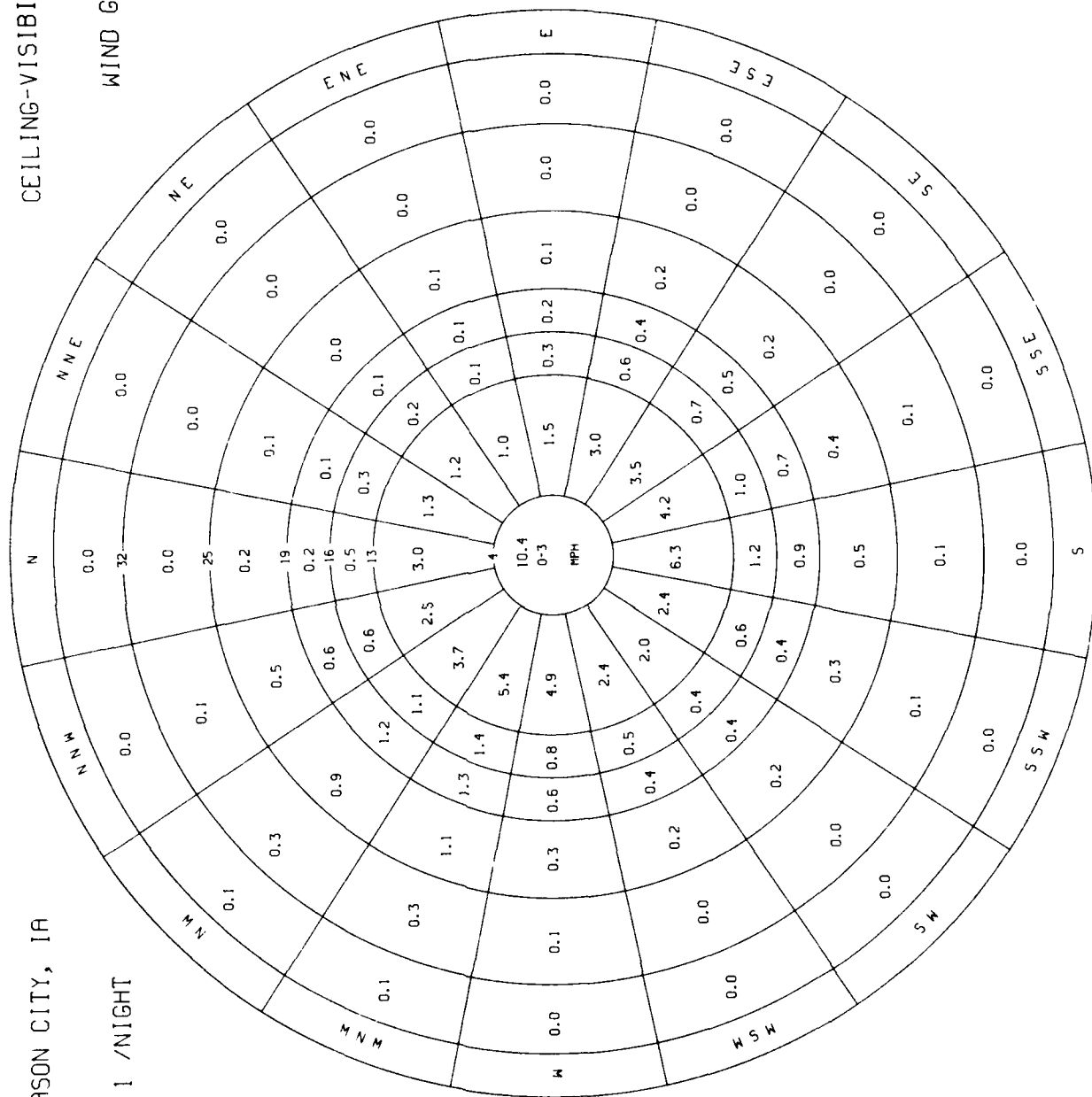
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	2.9	3.5	.8	1.0	.7	.9	.4	.5	.1	.1	.0	.0	5.2 6.3
NNE	.1	.1	1.5	1.8	.4	.5	.3	.3	.1	.2	.1	.1	.0	.0	2.6 3.1
NE	.2	.2	1.3	1.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.1 2.5
ENE	.1	.1	1.0	1.2	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	1.6 1.9
E	.2	.2	1.5	1.8	.4	.5	.3	.3	.2	.2	.1	.1	.0	.0	2.6 3.1
ESE	.2	.2	2.4	2.9	.7	.8	.6	.8	.5	.6	.1	.1	.0	.0	4.5 5.4
SE	.3	.3	2.4	2.9	.9	1.0	.8	.9	.5	.6	.1	.1	.0	.0	4.9 6.0
SSE	.1	.2	2.6	3.1	1.1	1.4	1.2	1.4	1.0	1.2	.3	.3	.1	.1	6.4 7.7
S	.3	.4	4.5	5.5	1.8	2.1	1.9	2.2	1.5	1.8	.4	.4	.1	.1	10.4 12.5
SSW	.1	.2	2.3	2.7	1.0	1.2	1.0	1.2	.8	1.0	.2	.3	.1	.1	5.5 6.6
SW	.2	.2	2.1	2.5	.7	.9	.7	.8	.5	.6	.1	.1	.0	.0	4.3 5.2
WSW	.1	.1	2.1	2.5	.7	.8	.6	.7	.4	.5	.0	.1	.0	.0	3.8 4.6
W	.2	.3	2.8	3.3	.8	1.0	.8	1.0	.6	.7	.2	.2	.0	.0	5.4 6.5
WNW	.2	.2	3.5	4.2	1.5	1.8	1.6	1.9	1.5	1.8	.5	.6	.2	.2	8.9 10.8
NW	.2	.2	2.8	3.4	1.4	1.6	1.5	1.8	1.3	1.6	.4	.4	.1	.2	7.7 9.2
NNW	.1	.1	1.9	2.3	.9	1.1	.9	1.1	.8	1.0	.2	.3	.1	.1	4.9 5.9
CALM	2.2	2.6													2.2 2.6
TOTAL	5.0	6.0	37.6	45.3	13.5	16.3	13.1	15.8	10.5	12.6	2.6	3.1	.7	.8	82.9 100

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCW MASON CITY, IA

CLASS 1 / NIGHT

NO. OBS.: 34798

STATION NUMBER: 14940

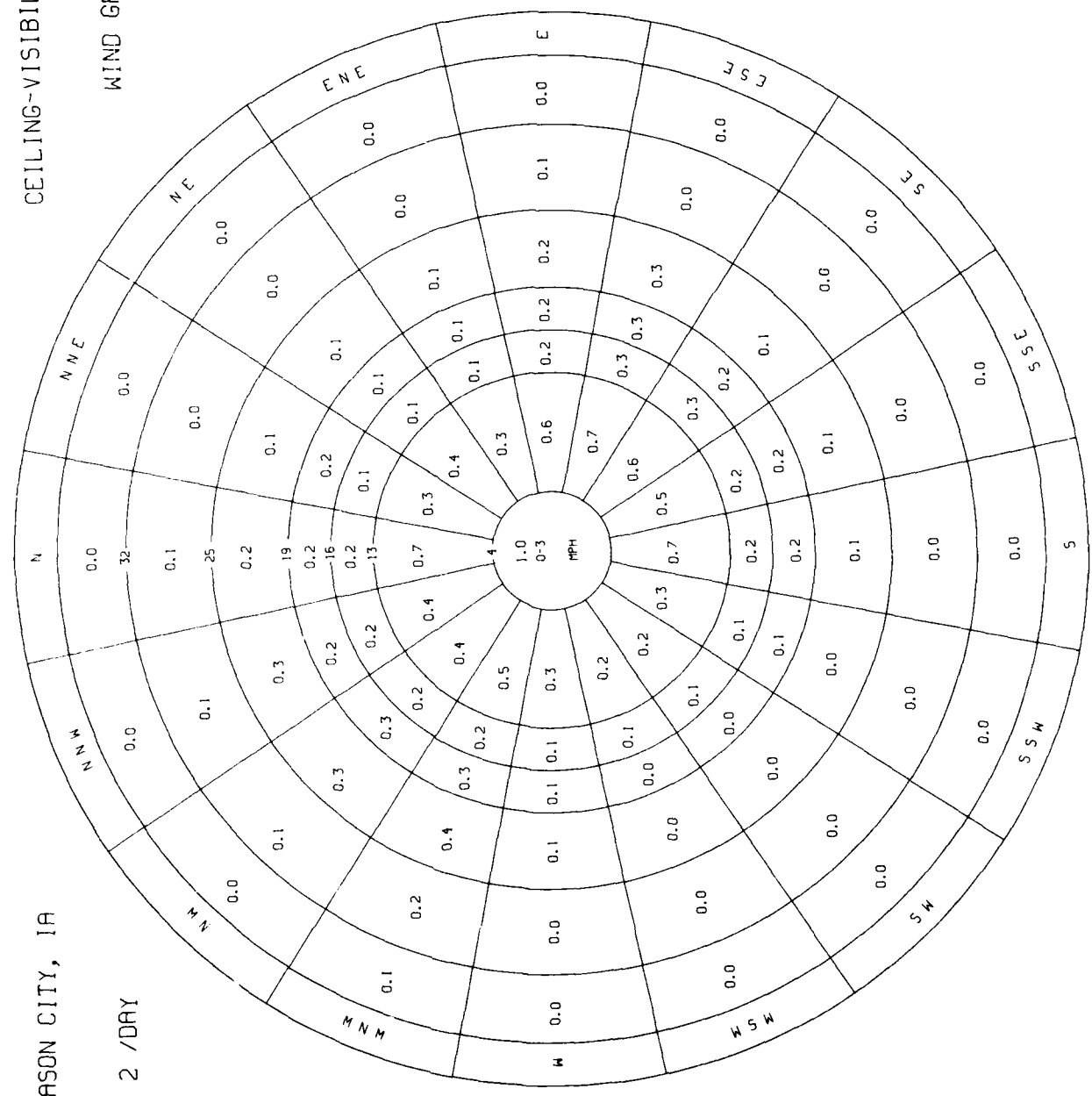
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.4	3.0	3.5	.5	.6	.2	.3	.2	.3	.0	.0	.0	.0	4.3 5.2 9.7
NNE	.2	.2	1.3	1.6	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.1 2.4 10.1
NE	.3	.4	1.2	1.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.8 2.2 8.4
ENE	.2	.2	1.0	1.2	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.5 1.7 9.3
E	.3	.4	1.5	1.8	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.4 2.8 9.4
ESE	.3	.4	3.0	3.6	.6	.7	.4	.4	.2	.2	.0	.1	.0	.0	4.5 5.4 10.1
SE	.4	.5	3.5	4.2	.7	.9	.5	.6	.2	.2	.0	.0	.0	.0	5.4 6.4 9.9
SSE	.3	.4	4.2	5.0	1.0	1.2	.7	.8	.4	.5	.1	.1	.0	.0	6.8 8.1 10.8
S	.7	.8	6.3	7.5	1.2	1.4	.9	1.0	.5	.6	.1	.1	.0	.0	9.5 11.3 10.1
SSW	.2	.3	2.4	2.9	.6	.7	.4	.5	.3	.4	.1	.1	.0	.0	4.0 4.8 11.2
SW	.3	.4	2.0	2.4	.4	.5	.4	.4	.2	.3	.0	.0	.0	.0	3.4 4.1 10.5
WSW	.3	.3	2.4	2.9	.5	.6	.4	.4	.2	.2	.0	.0	.0	.0	3.8 4.5 10.5
W	.4	.5	4.9	5.9	.8	.9	.6	.7	.3	.4	.1	.1	.0	.0	7.1 8.5 10.2
WNW	.4	.5	5.4	6.5	1.4	1.7	1.3	1.6	1.1	1.3	.3	.4	.1	.1	10.0 12.0 12.3
NW	.3	.4	3.7	4.4	1.1	1.3	1.2	1.5	.9	1.0	.3	.3	.1	.1	7.6 9.0 13.0
NNW	.2	.2	2.5	3.0	.6	.7	.6	.7	.5	.5	.1	.1	.0	.0	4.5 5.4 12.2
CALM	5.2	6.2													5.2 6.2
TOTAL	10.4	12.3	48.5	57.8	10.2	12.2	8.0	9.6	5.4	6.4	1.2	1.4	.3	.4	83.9 100 10.2

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCW MASSA CITY, IA

CLASS 2 / DAY

NO. OBS.: 8363

STATION NUMBER: 14940

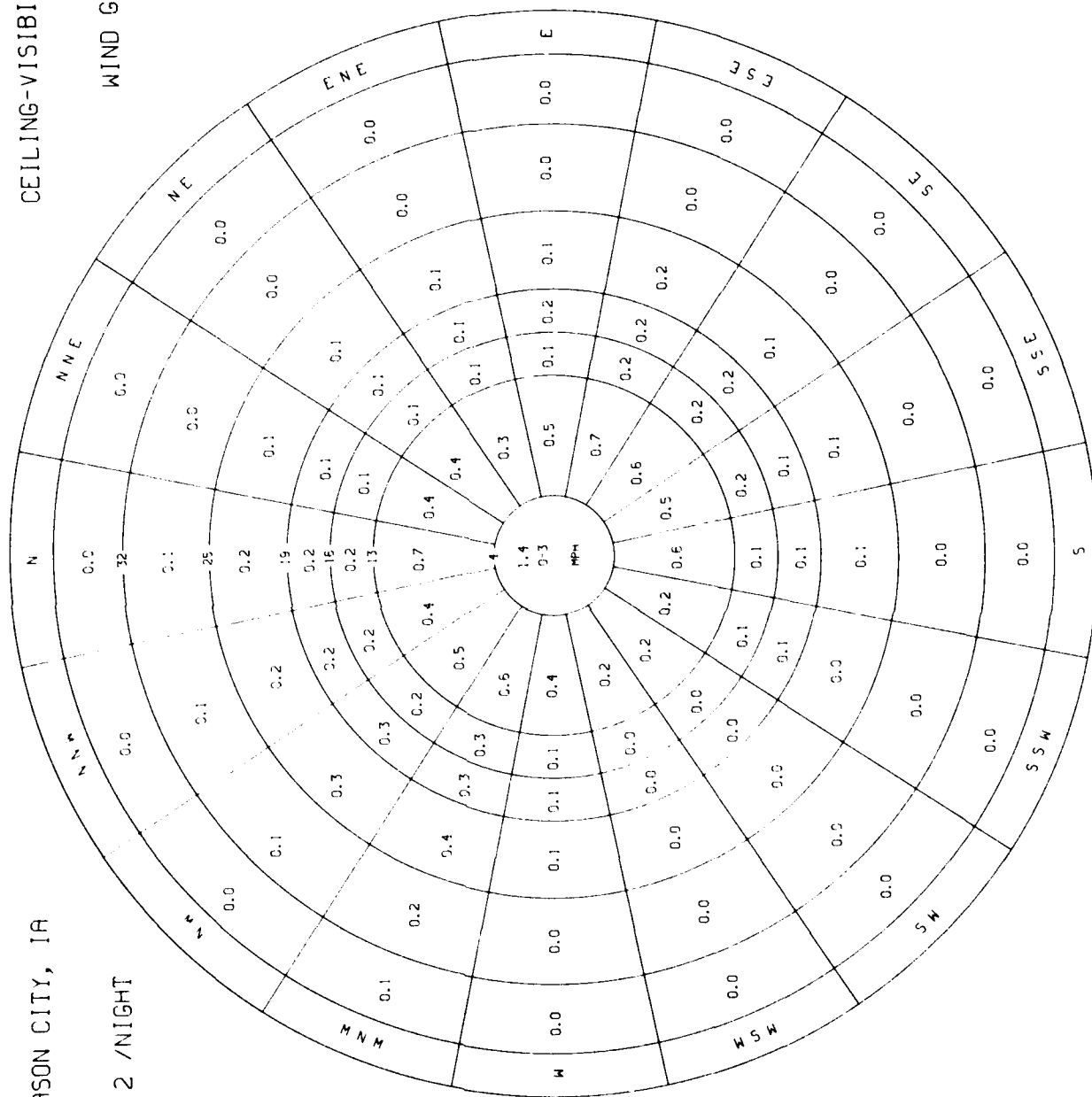
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.2	.7	3.8	.2	1.4	.2	1.4	.2	1.3	.1	.5	.0	.2	1.5	8.8	14.3
NNE	.0	.2	.3	1.9	.1	.7	.2	.9	.1	.8	.0	.3	.0	.0	.8	4.8	14.2
NE	.0	.3	.4	2.3	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.7	4.3	12.1
ENE	.0	.1	.3	1.9	.1	.6	.1	.6	.1	.5	.0	.1	.0	.1	.6	3.8	13.0
E	.0	.3	.6	3.4	.2	1.0	.2	1.2	.2	1.0	.1	.3	.0	.1	1.2	7.3	13.7
ESE	.1	.3	.7	4.1	.3	1.6	.3	1.7	.3	1.6	.0	.2	.0	.0	1.6	9.5	13.6
SE	.0	.3	.6	3.5	.3	1.5	.2	1.1	.1	.7	.0	.1	.0	.0	1.2	7.3	12.7
SSE	.0	.1	.5	3.1	.2	1.4	.2	1.2	.1	.8	.0	.1	.0	.0	1.1	6.7	13.4
S	.0	.2	.7	4.1	.2	1.2	.2	.9	.1	.7	.0	.1	.0	.0	1.2	7.3	12.1
SSW	.0	.0	.3	1.6	.1	.4	.1	.4	.0	.3	.0	.0	.0	.0	.5	2.8	12.9
SW	.0	.1	.2	1.0	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.3	2.0	12.6
WSW	.0	.1	.2	1.2	.1	.3	.0	.2	.0	.2	.0	.0	.0	.1	.3	2.0	12.4
W	.0	.2	.3	1.6	.1	.7	.1	.6	.1	.5	.0	.2	.0	.1	.7	4.0	14.4
WNW	.0	.1	.5	2.9	.2	1.4	.3	1.7	.4	2.5	.2	1.0	.1	.6	1.8	10.3	17.5
NW	.0	.1	.4	2.3	.2	1.3	.3	2.0	.3	2.0	.1	.7	.0	.3	1.5	8.7	16.9
NNW	.0	.1	.4	2.1	.2	1.1	.2	1.4	.3	1.7	.1	.8	.0	.2	1.3	7.5	16.9
CALM	.5	3.0													.5	3.0	
TOTAL	1.0	5.8	7.0	40.8	2.7	15.7	2.7	15.9	2.6	15.2	.8	4.7	.3	1.9	17.1	100	13.9

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 2 / NIGHT

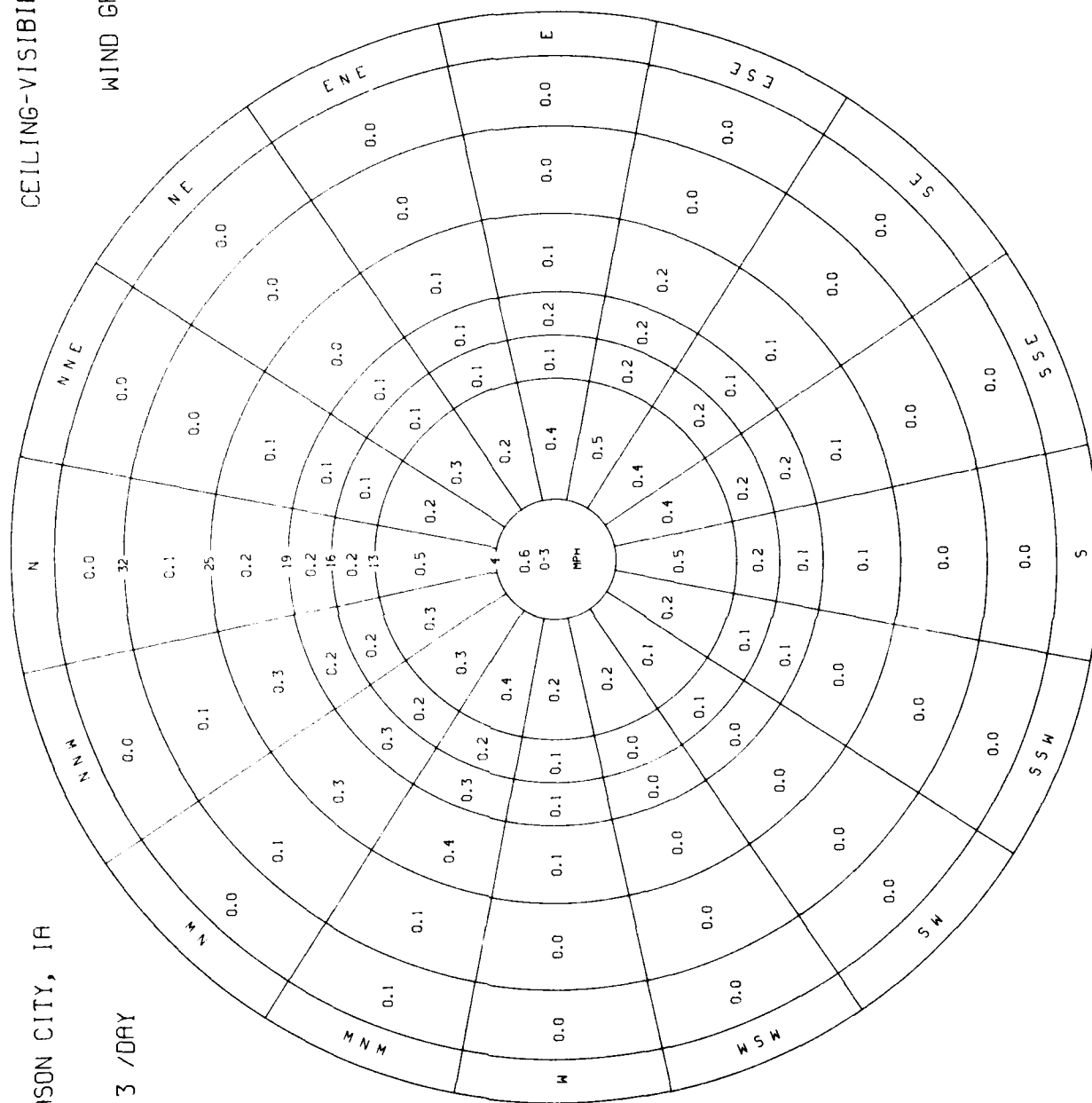
STATION NUMBER: 14940

NO. OBS.: 6654

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.7	4.1	.2	1.3	.2	1.4	.2	1.2	.1	.3	.0	.1	1.4	8.6	13.6
NNE	.0	.2	.4	2.4	.1	.7	.1	.8	.1	.9	.0	.2	.0	.1	.8	5.1	13.6
NE	.0	.2	.4	2.3	.1	.5	.1	.6	.1	.7	.0	.1	.0	.0	.7	4.3	12.5
ENE	.0	.1	.3	2.0	.1	.5	.1	.6	.1	.4	.0	.0	.0	.0	.6	3.7	12.3
E	.1	.4	.5	2.9	.1	.8	.2	1.0	.1	.9	.0	.2	.0	.1	1.0	6.2	13.0
ESE	.1	.3	.7	4.5	.2	1.1	.2	1.4	.2	1.2	.0	.2	.0	.0	1.4	8.9	12.7
SE	.1	.3	.6	3.9	.2	1.1	.2	1.1	.1	.6	.0	.1	.0	.0	1.2	7.2	11.8
SSE	.0	.3	.5	3.2	.2	1.2	.1	.9	.1	.5	.0	.1	.0	.0	1.0	6.1	11.9
S	.1	.5	.6	4.0	.1	.8	.1	.9	.1	.3	.0	.1	.0	.0	1.1	6.6	10.7
SSW	.0	.1	.2	1.4	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.4	2.6	11.5
SW	.0	.1	.2	1.0	.0	.3	.0	.1	.0	.2	.0	.0	.0	.0	.3	1.7	10.5
WSW	.0	.1	.2	1.0	.0	.2	.0	.3	.0	.2	.0	.0	.0	.0	.3	1.9	12.2
W	.1	.4	.4	2.3	.1	.4	.1	.5	.1	.4	.0	.2	.0	.3	.7	4.5	13.5
WNW	.1	.3	.6	3.5	.3	1.5	.3	1.8	.4	2.5	.2	1.2	.1	.4	1.8	11.3	16.6
NW	.0	.2	.5	3.0	.2	1.4	.3	1.7	.3	2.0	.1	.8	.0	.3	1.5	9.5	16.2
NNW	.0	.1	.4	2.7	.2	1.0	.2	1.3	.2	1.4	.1	.6	.0	.3	1.2	7.3	15.9
CALM	.7	4.6													.7	4.6	
TOTAL	1.4	8.5	7.1	44.0	2.2	13.5	2.3	14.6	2.2	13.5	.7	4.2	.3	1.6	16.1	100	12.9

MCW MASON CITY, IA

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 3 / DAY

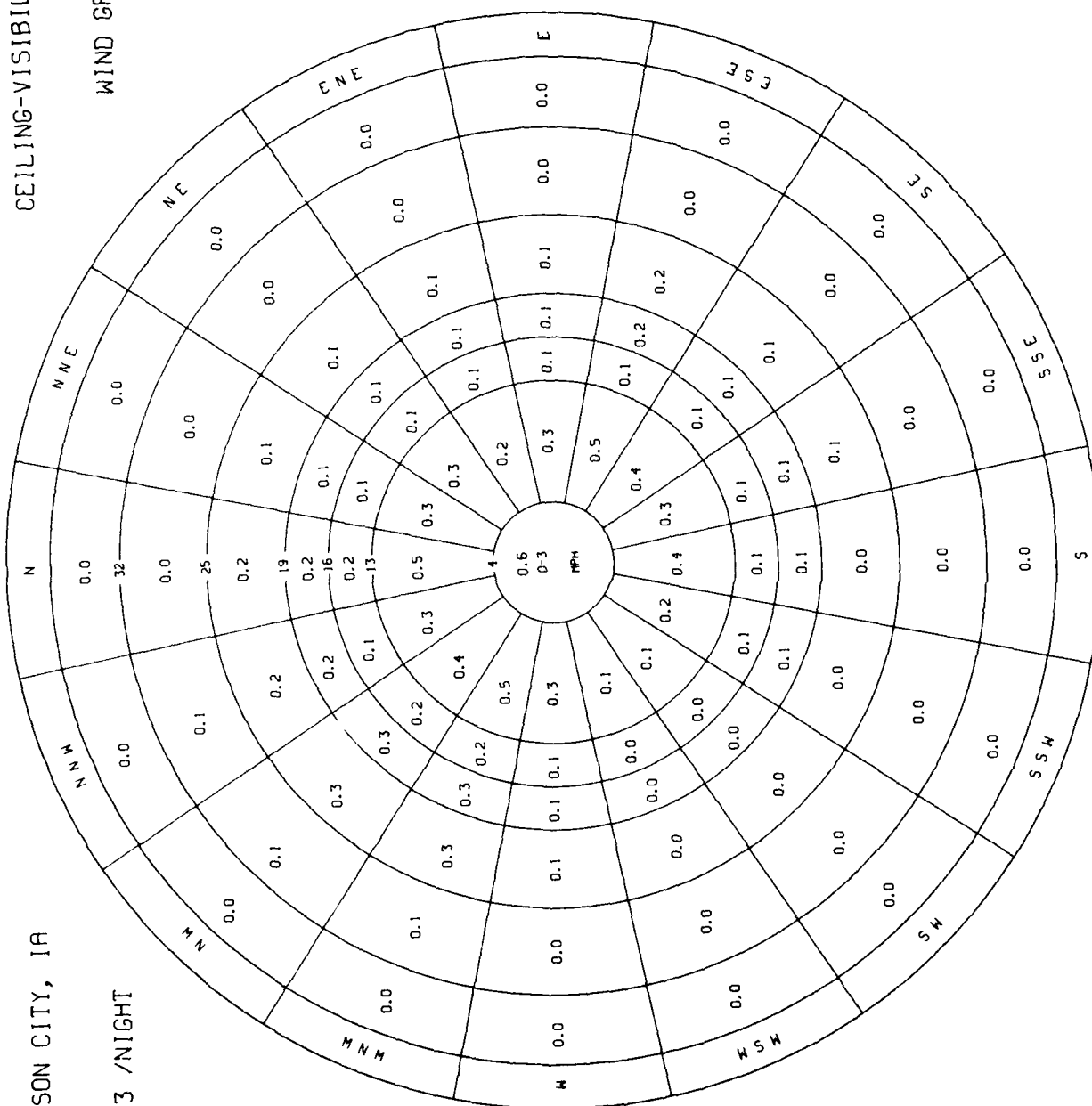
STATION NUMBER: 14940

NO. OBS.: 6639

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.5	4.0	.2	1.6	.2	1.5	.2	1.3	.1	.4	.0	.1	1.2	9.1	14.1
NNE	.0	.2	.2	1.7	.1	.7	.1	.9	.1	.8	.0	.2	.0	.0	.6	4.5	14.6
NE	.0	.2	.3	2.1	.1	.7	.1	.6	.0	.3	.0	.1	.0	.0	.6	4.1	12.3
ENE	.0	.1	.2	1.8	.1	.6	.1	.6	.1	.5	.0	.0	.0	.1	.5	3.7	13.4
E	.0	.2	.4	3.3	.1	1.1	.2	1.2	.1	1.1	.0	.3	.0	.1	1.0	7.1	13.8
ESE	.0	.2	.5	3.4	.2	1.6	.2	1.6	.2	1.7	.0	.2	.0	.0	1.2	8.8	14.1
SE	.0	.2	.4	3.1	.2	1.6	.1	1.1	.1	.8	.0	.1	.0	.0	.9	6.9	13.1
SSE	.0	.1	.4	2.6	.2	1.3	.2	1.2	.1	.9	.0	.2	.0	.0	.9	6.3	14.1
S	.0	.1	.5	3.6	.2	1.3	.1	1.0	.1	.8	.0	.2	.0	.0	.9	7.0	12.8
SSW	.0	.1	.2	1.5	.1	.5	.1	.5	.0	.3	.0	.0	.0	.0	.4	2.8	13.4
SW	.0	.1	.1	1.0	.1	.4	.0	.2	.0	.3	.0	.1	.0	.0	.3	2.2	13.1
WSW	.0	.1	.2	1.3	.0	.3	.0	.2	.0	.3	.0	.0	.0	.1	.3	2.2	12.6
W	.0	.1	.2	1.7	.1	.9	.1	.7	.1	.6	.0	.2	.0	.1	.6	4.2	14.4
WNW	.0	.1	.4	3.2	.2	1.7	.3	2.0	.4	2.7	.1	1.1	.1	.5	1.5	11.3	17.1
NW	.0	.1	.3	2.4	.2	1.5	.3	2.3	.3	2.2	.1	.8	.0	.2	1.3	9.5	16.9
NNW	.0	.1	.3	2.3	.2	1.2	.2	1.6	.3	2.0	.1	.9	.0	.2	1.1	8.3	17.0
CALM	.3	2.0													.3	2.0	
TOTAL	.6	4.2	5.3	39.0	2.3	16.8	2.3	17.2	2.2	16.5	.6	4.7	.2	1.6	13.5	100	14.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCW MASON CITY, IA

CLASS 3 / NIGHT

NO. OBS.: 4903

STATION NUMBER: 14940

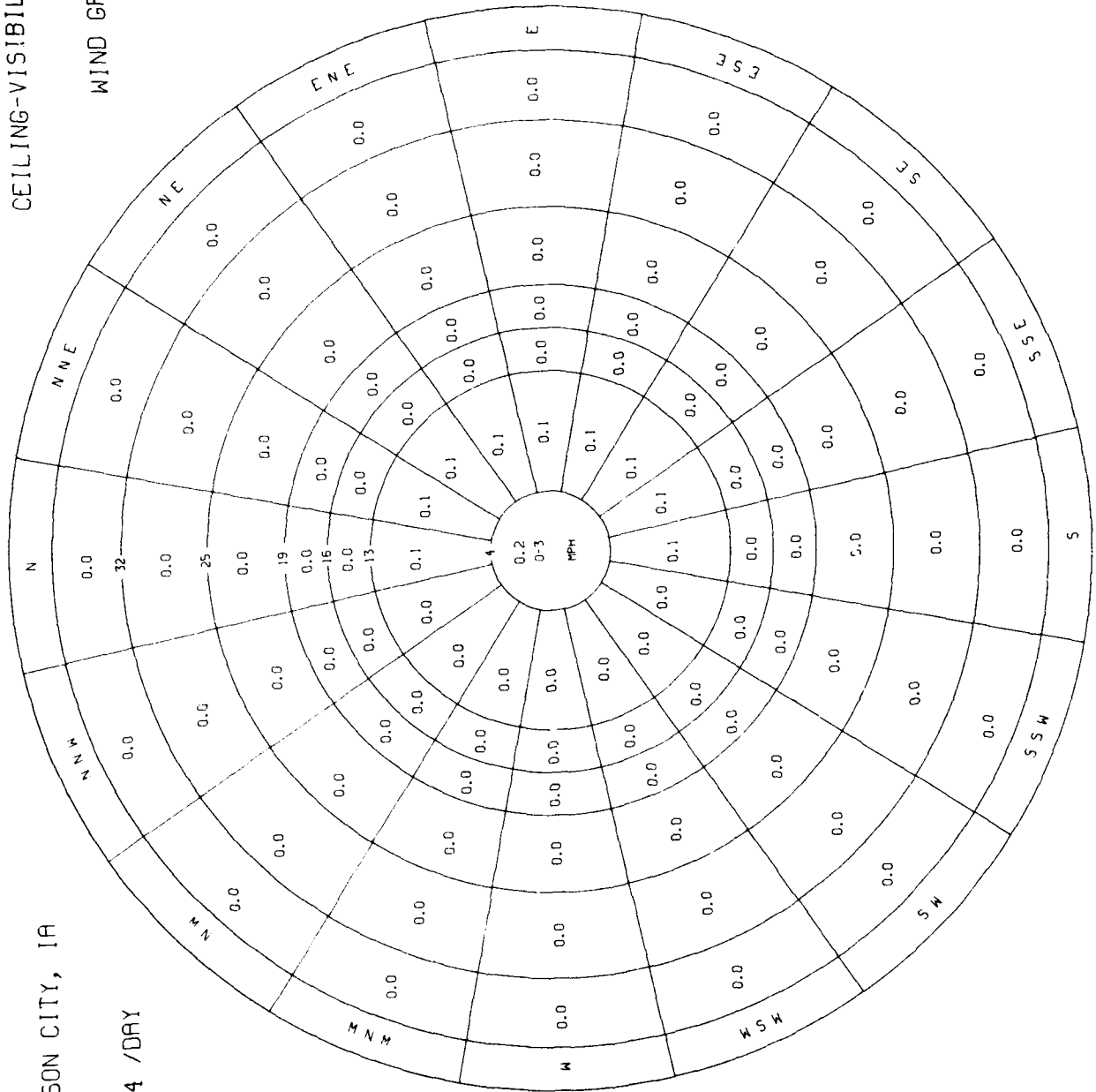
O I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
																	C
N	.0	.2	.5	4.1	.2	1.4	.2	1.7	.2	1.3	.0	.3	.0	.0	1.1	9.0	13.6
NNE	.0	.1	.3	2.4	.1	.8	.1	1.0	.1	1.0	.0	.2	.0	.0	.7	5.6	14.0
NE	.0	.1	.3	2.3	.1	.5	.1	.8	.1	.8	.0	.1	.0	.0	.5	4.6	13.2
ENE	.0	.1	.2	1.8	.1	.6	.1	.6	.1	.5	.0	.1	.0	.1	.4	3.7	13.0
E	.0	.3	.3	2.6	.1	.9	.1	1.0	.1	.9	.0	.3	.0	.1	.7	6.0	13.4
ESE	.0	.4	.5	4.1	.1	1.1	.2	1.5	.2	1.3	.0	.2	.0	.0	1.0	8.7	13.1
SE	.0	.2	.4	3.4	.1	1.0	.1	1.1	.1	.6	.0	.1	.0	.0	.7	6.3	12.2
SSE	.0	.2	.3	2.2	.1	.9	.1	.8	.1	.6	.0	.1	.0	.0	.6	4.8	12.6
S	.0	.4	.4	3.2	.1	.9	.1	1.0	.0	.3	.0	.1	.0	.0	.7	5.9	11.7
SSW	.0	.1	.2	1.4	.1	.4	.1	.5	.0	.2	.0	.0	.0	.0	.3	2.6	11.8
SW	.0	.1	.1	.9	.0	.3	.0	.1	.0	.2	.0	.0	.0	.0	.2	1.6	11.7
WSW	.0	.1	.1	.9	.0	.3	.0	.3	.0	.2	.0	.1	.0	.0	.2	1.9	13.6
W	.0	.2	.3	2.2	.1	.5	.1	.6	.1	.5	.0	.2	.0	.3	.5	4.6	14.3
WNW	.0	.3	.5	3.8	.2	1.9	.3	2.2	.3	2.9	.1	1.1	.0	.3	1.5	12.6	16.4
NW	.0	.2	.4	3.5	.2	1.6	.3	2.2	.3	2.5	.1	1.0	.0	.3	1.3	11.3	16.3
NNW	.0	.1	.3	2.8	.1	1.2	.2	1.6	.2	1.7	.1	.7	.0	.2	1.0	8.4	16.1
CALM	.3	2.4													.3	2.4	
TOTAL	.6	5.5	4.9	41.7	1.7	14.4	2.0	17.0	1.8	15.4	.5	4.6	.2	1.4	11.8	100	13.8

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 4 / DAY

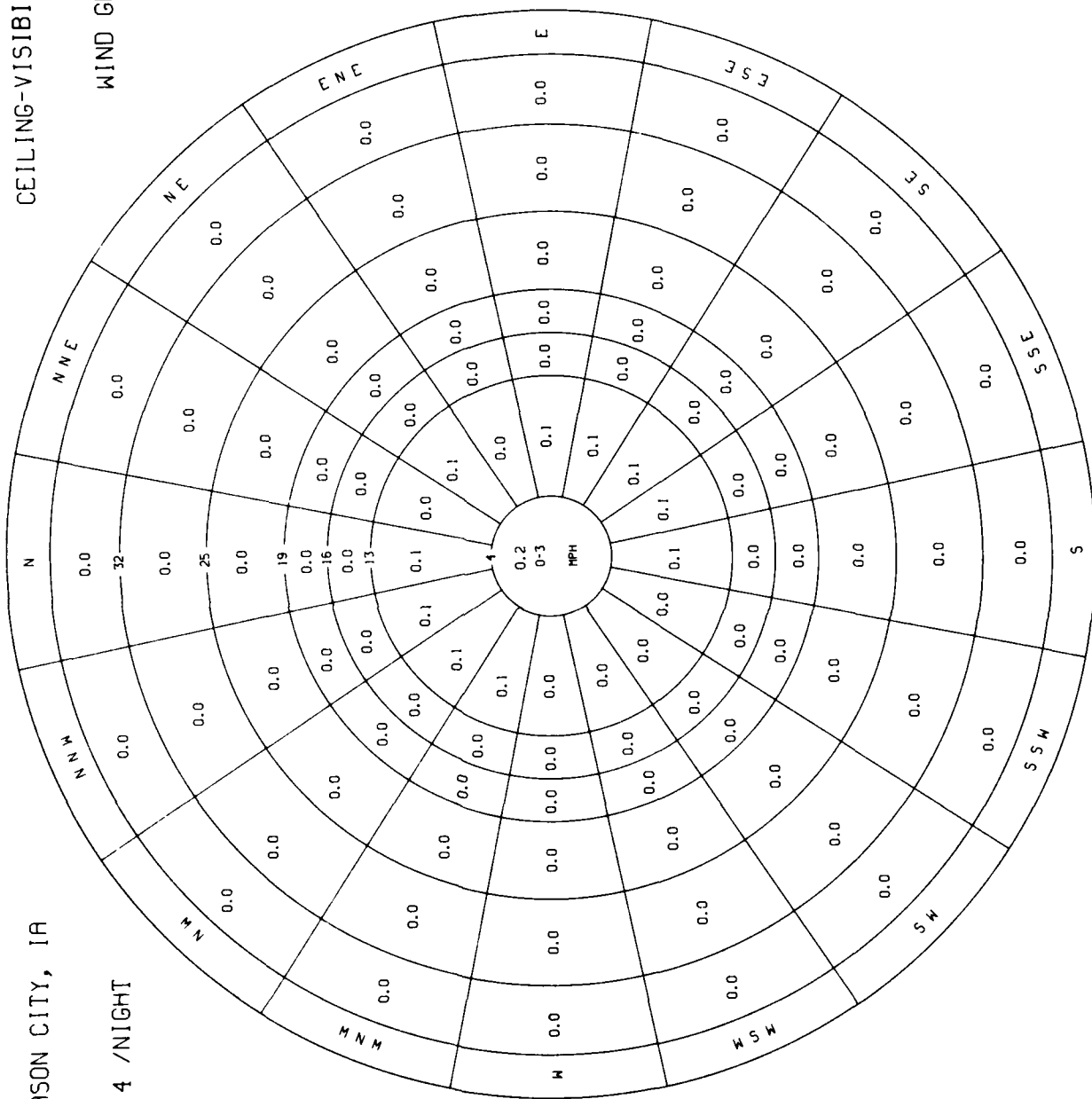
STATION NUMBER: 14940

NO. OBS.: 1049

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.1	3.1	.0	1.0	.0	1.5	.0	1.0	.0	.5	.0	.1	.2 7.5
NNE	.0	.1	.1	2.8	.0	1.3	.0	.9	.0	.7	.0	.0	.0	.1	.1 5.8
NE	.0	.2	.1	3.1	.0	.7	.0	.5	.0	.6	.0	.2	.0	.0	.1 5.1
ENE	.0	.2	.1	2.5	.0	1.1	.0	.5	.0	.6	.0	.2	.0	.0	.1 5.1
E	.0	.7	.1	4.4	.0	.8	.0	1.4	.0	.7	.0	.7	.0	.1	.2 8.7
ESE	.0	.5	.1	6.3	.0	2.1	.0	2.2	.0	2.1	.0	.4	.0	.0	.3 13.5
SE	.0	.3	.1	5.5	.0	1.1	.0	1.3	.0	.4	.0	.1	.0	.0	.2 8.8
SSE	.0	.2	.1	4.5	.0	1.9	.0	1.0	.0	.3	.0	.0	.0	.1	.2 8.0
S	.0	.3	.1	5.1	.0	1.2	.0	.8	.0	.5	.0	.2	.0	.0	.2 8.0
SSW	.0	.0	.0	2.3	.0	.2	.0	.3	.0	.3	.0	.1	.0	.0	.1 3.1
SW	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0 1.1
WSW	.0	.0	.0	.7	.0	.2	.0	.1	.0	.1	.0	.1	.0	.0	.0 1.1
W	.0	.2	.0	.8	.0	.4	.0	.3	.0	.5	.0	.3	.0	.0	.1 2.4
WNW	.0	.0	.0	2.1	.0	.5	.0	.6	.0	2.1	.0	.3	.0	.7	.1 6.2
NW	.0	.2	.0	1.8	.0	.8	.0	1.4	.0	1.1	.0	.5	.0	.4	.1 6.2
NNW	.0	.0	.0	1.9	.0	.6	.0	.6	.0	.8	.0	.7	.0	.3	.1 4.8
CALM	.1	4.5													.1 4.5
TOTAL	.2	7.5	1.0	47.6	.3	14.1	.3	13.3	.2	11.5	.1	4.1	.0	1.8	2.1 100
															12.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14940

NO. OBS.: 836

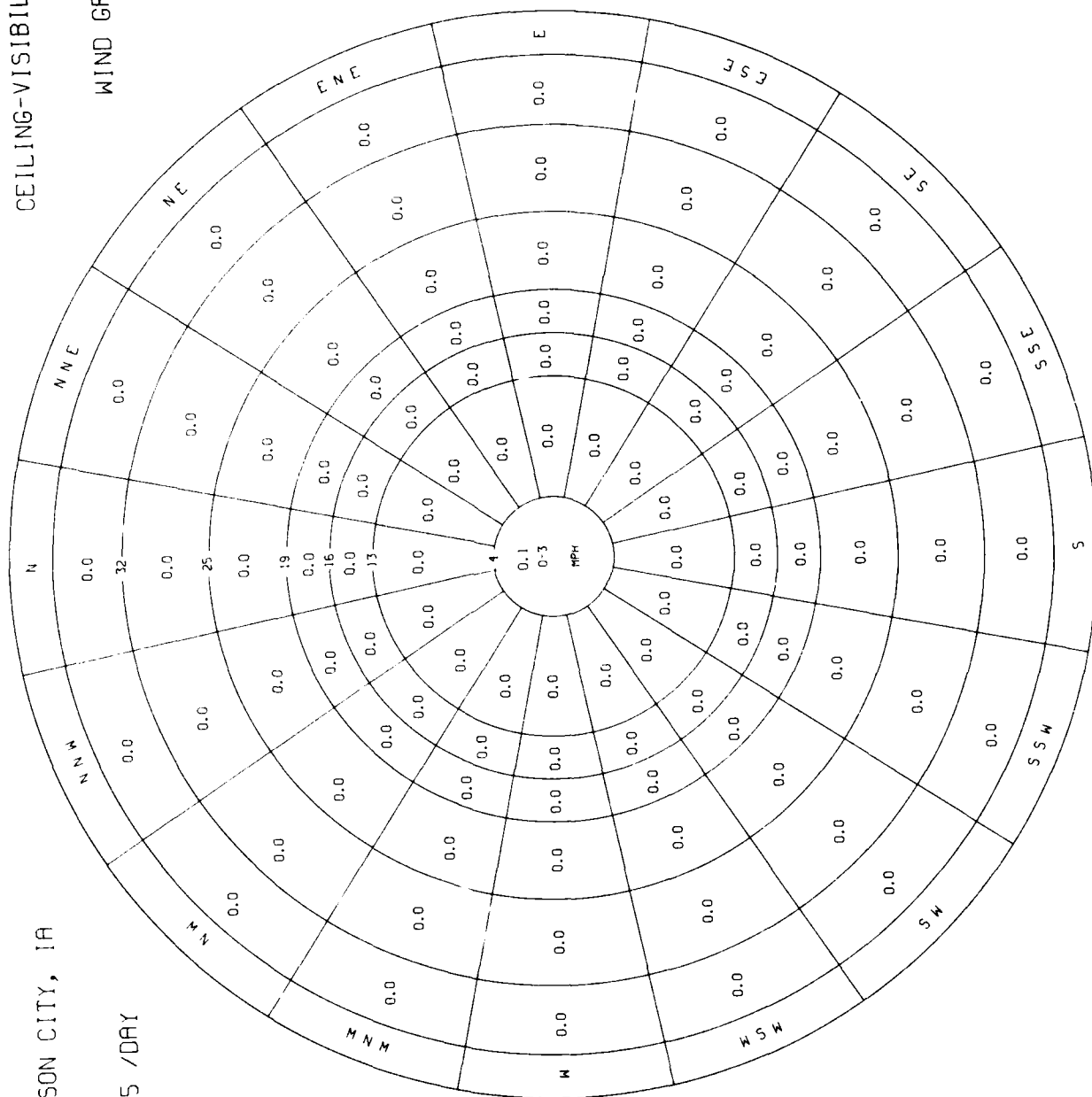
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.1	5.0	.0	1.7	.0	1.1	.0	1.0	.0	.4	.0	.1	.2	9.2	12.9
NNE	.0	.1	.0	2.2	.0	.7	.0	.4	.0	.8	.0	.0	.0	.1	.1	4.3	12.9
NE	.0	.2	.1	2.8	.0	.5	.0	.6	.0	.5	.0	.0	.0	.0	.1	4.5	11.3
ENE	.0	.1	.0	2.4	.0	.6	.0	.8	.0	.4	.0	.0	.0	.0	.1	4.3	11.6
E	.0	.0	.1	4.5	.0	.8	.0	1.4	.0	1.7	.0	.1	.0	.0	.2	8.6	13.2
ESE	.0	.2	.1	5.1	.0	1.4	.0	1.6	.0	1.7	.0	.2	.0	.0	.2	10.3	13.2
SE	.0	.1	.1	4.8	.0	1.3	.0	1.2	.0	1.3	.0	.1	.0	.0	.2	8.9	12.7
SSE	.0	.2	.1	4.4	.0	1.7	.0	1.4	.0	.4	.0	.1	.0	.0	.2	8.3	11.8
S	.0	.5	.1	4.5	.0	.6	.0	1.1	.0	.1	.0	.0	.0	.0	.1	6.8	10.2
SSW	.0	.1	.0	1.4	.0	1.1	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.0	11.8
SW	.0	.2	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.7
WSW	.0	.4	.0	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.4	7.4
W	.0	.5	.0	1.7	.0	.0	.0	.0	.0	.5	.0	.2	.0	.1	.1	3.0	11.7
WNW	.0	.1	.1	2.9	.0	1.2	.0	.8	.0	1.4	.0	.8	.0	.0	.1	7.3	15.3
NW	.0	.0	.1	2.5	.0	1.8	.0	.5	.0	1.3	.0	.6	.0	.2	.1	6.9	15.3
NNW	.0	.0	.1	2.5	.0	.8	.0	.7	.0	.7	.0	.1	.0	.1	.1	5.0	13.9
CALM	.1	6.0													.1	6.0	
TOTAL	.2	8.9	1.0	49.0	.3	14.8	.2	11.8	.2	12.0	.1	2.8	.0	.7	2.0	100	11.9

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCW MASON CITY, IA

CLASS 5 / DAY

NO. OBS.: 325

STATION NUMBER: 14940

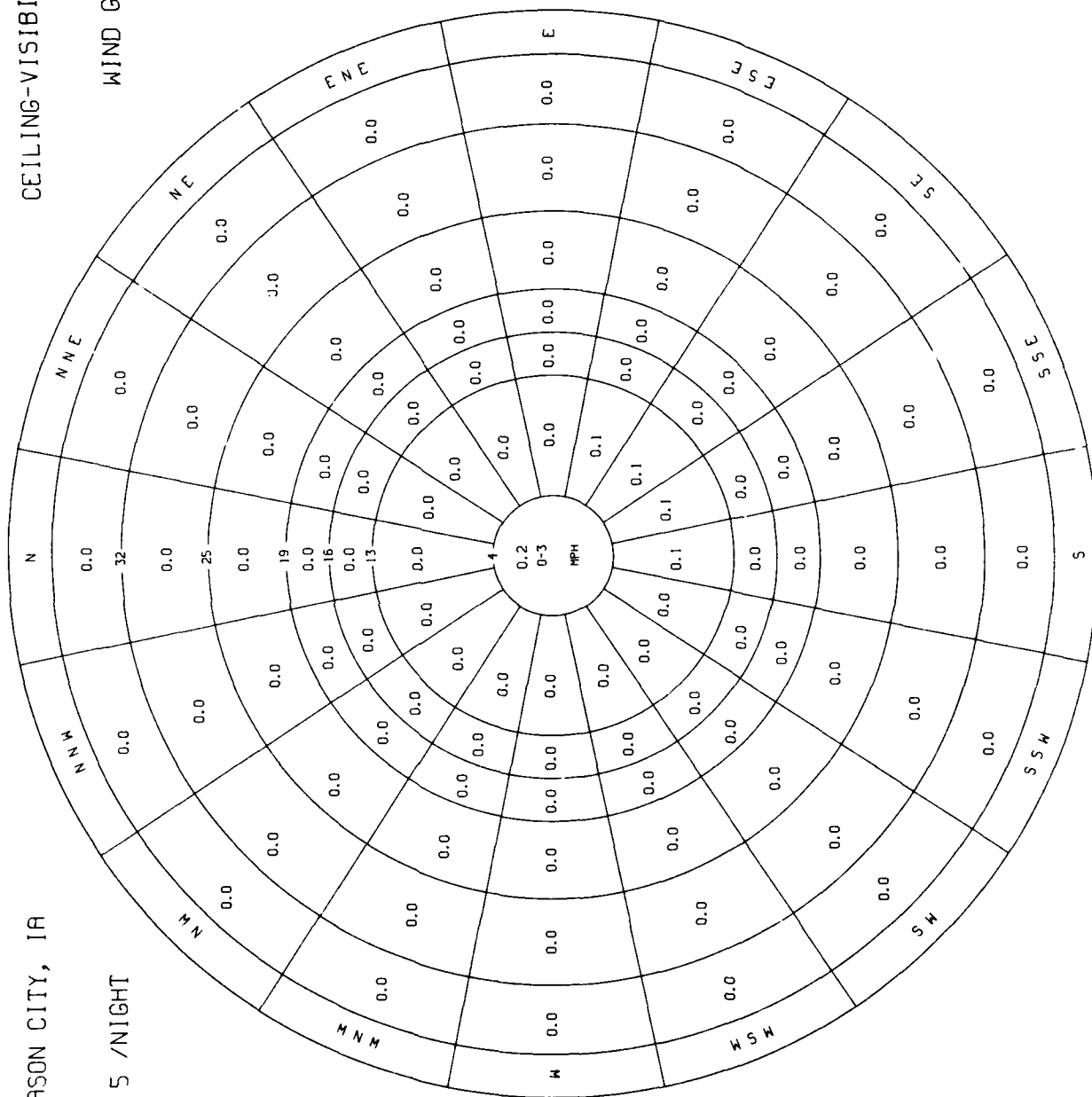
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	1.2	.0	2.8	.0	.0	.0	1.2	.0	1.2	.0	1.2	.0	.9	.1	8.6	16.4		
NNE	.0	.6	.0	2.2	.0	.6	.0	.3	.0	.9	.0	2.2	.0	.0	.0	6.8	16.3		
NNE	.0	.6	.0	3.1	.0	.3	.0	.3	.0	.9	.0	.0	.0	.3	.0	5.5	12.6		
ENE	.0	.3	.0	.3	.0	.0	.0	.6	.0	.0	.0	.3	.0	.0	.0	1.5	15.4		
E	.0	.3	.0	1.5	.0	.6	.0	.9	.0	.6	.0	.3	.0	1.5	.0	5.8	21.0		
ESE	.0	.9	.0	4.6	.0	.9	.0	1.5	.0	.6	.0	.3	.0	.0	.1	8.9	11.1		
SE	.0	.6	.0	6.8	.0	2.5	.0	.6	.0	.6	.0	.0	.0	.0	.1	11.1	11.0		
SSE	.0	.0	.0	6.2	.0	1.2	.0	.9	.0	.9	.0	.0	.0	.0	.1	9.2	11.2		
S	.0	.6	.0	6.5	.0	.9	.0	.9	.0	.3	.0	.0	.0	.0	.1	9.2	9.2		
SSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.2	11.0		
SW	.0	.3	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.1		
WSW	.0	.0	.0	1.2	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	2.2	11.1		
W	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.0		
WNW	.0	.3	.0	.9	.0	.6	.0	.3	.0	1.5	.0	1.2	.0	1.5	.0	6.5	23.1		
NW	.0	.3	.0	2.2	.0	.6	.0	.6	.0	1.5	.0	.6	.0	.9	.0	6.8	19.0		
NNW	.0	.3	.0	1.5	.0	.3	.0	.3	.0	.6	.0	.3	.0	.0	.0	3.4	13.4		
CALM	.0	6.5													.0	6.5			
TOTAL	.1	13.8	.3	45.8	.1	9.2	.1	8.9	.1	10.5	.0	6.5	.0	5.2	.7	10.0	12.9		

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 5 / NIGHT

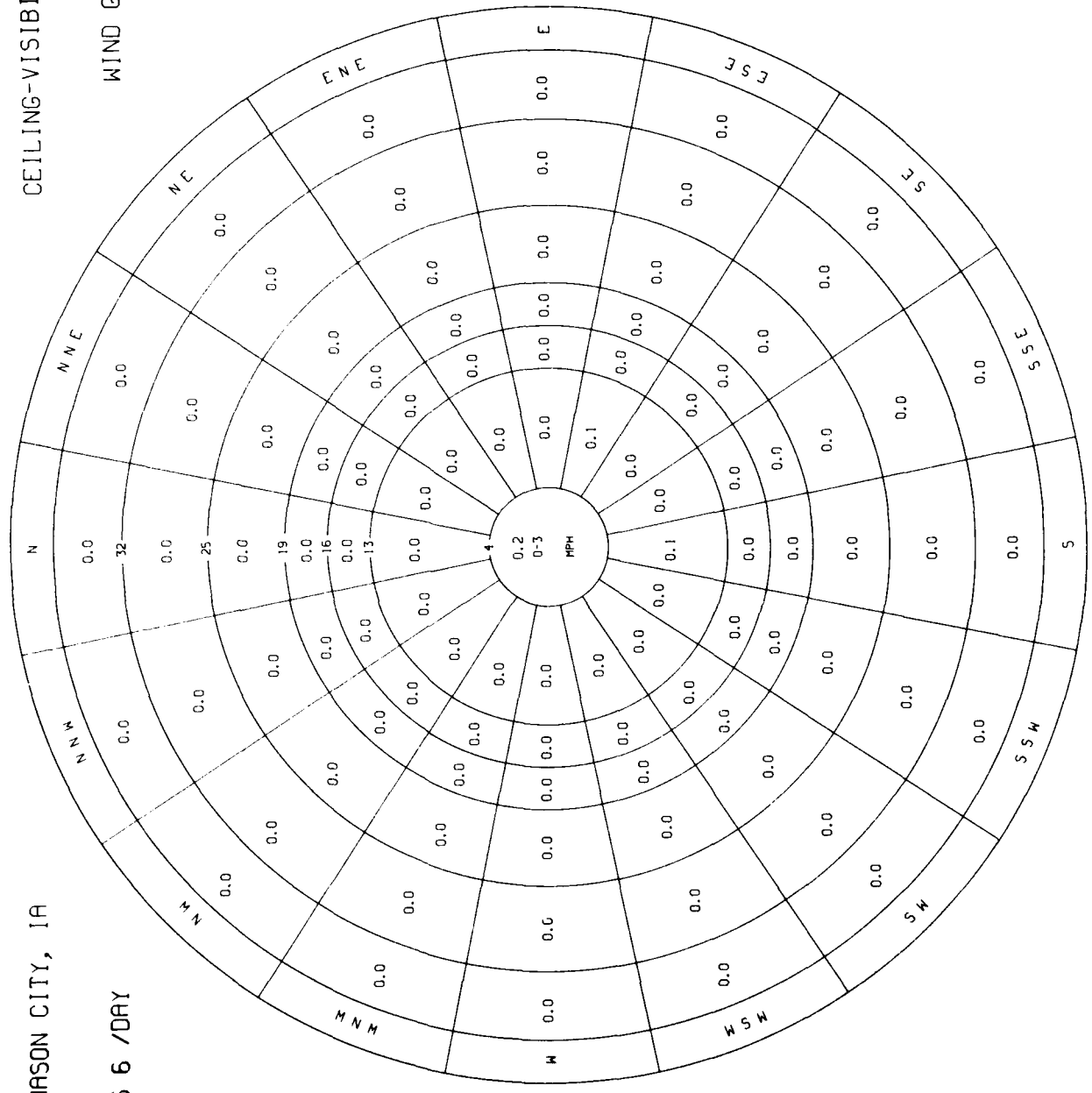
STATION NUMBER: 14940

NO. OBS.: 418

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	.5	.0	3.6	.0	.5	.0	.2	.0	.5	.0	.2	.0	.5	.1	6.0	12.5					
NNE	.0	.7	.0	1.7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	3.3	12.9					
NE	.0	1.0	.0	2.4	.0	.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.1	8.4					
ENE	.0	.0	.0	1.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.4	9.0					
E	.0	.5	.0	2.4	.0	.5	.0	.7	.0	.5	.0	.0	.0	.0	.0	4.5	11.1					
ESE	.0	.5	.1	6.2	.0	.7	.0	1.9	.0	.7	.0	.0	.0	.0	.1	10.0	10.9					
SE	.0	1.2	.1	6.0	.0	2.2	.0	1.0	.0	.7	.0	.2	.0	.0	.1	11.2	10.5					
SSE	.0	.5	.1	6.5	.0	1.7	.0	.5	.0	.0	.0	.0	.0	.0	.1	9.1	10.2					
S	.0	.7	.1	8.1	.0	1.2	.0	.0	.0	.7	.0	.0	.0	.0	.1	10.8	8.9					
SSW	.0	.2	.0	1.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.9	10.0					
SW	.0	.0	.0	2.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.2					
WSW	.0	.2	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.6					
W	.0	1.4	.0	3.3	.0	.2	.0	.2	.0	.0	.0	.2	.0	.7	.1	6.2	11.6					
WNW	.0	1.0	.0	2.4	.0	.0	.0	.0	.0	1.2	.0	1.7	.0	1.2	.1	7.4	19.4					
NW	.0	.2	.0	1.2	.0	.5	.0	.0	.0	.0	.0	.5	.0	.2	.0	2.6	15.2					
NNW	.0	.5	.0	1.7	.0	.5	.0	.0	.0	.2	.0	.7	.0	.7	.0	4.3	17.3					
CALM	.1	12.0													.1	12.0						
TOTAL	.2	21.1	.5	52.2	.1	8.6	.1	5.0	.1	5.7	.0	3.6	.0	3.8	1.0	100	10.2					

CEILING-VISIBILITY

WIND GRAPH



MCW MASON CITY, IA

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCW MASON CITY, IA

CLASS 6 / DAY

NO. OBS.: 350

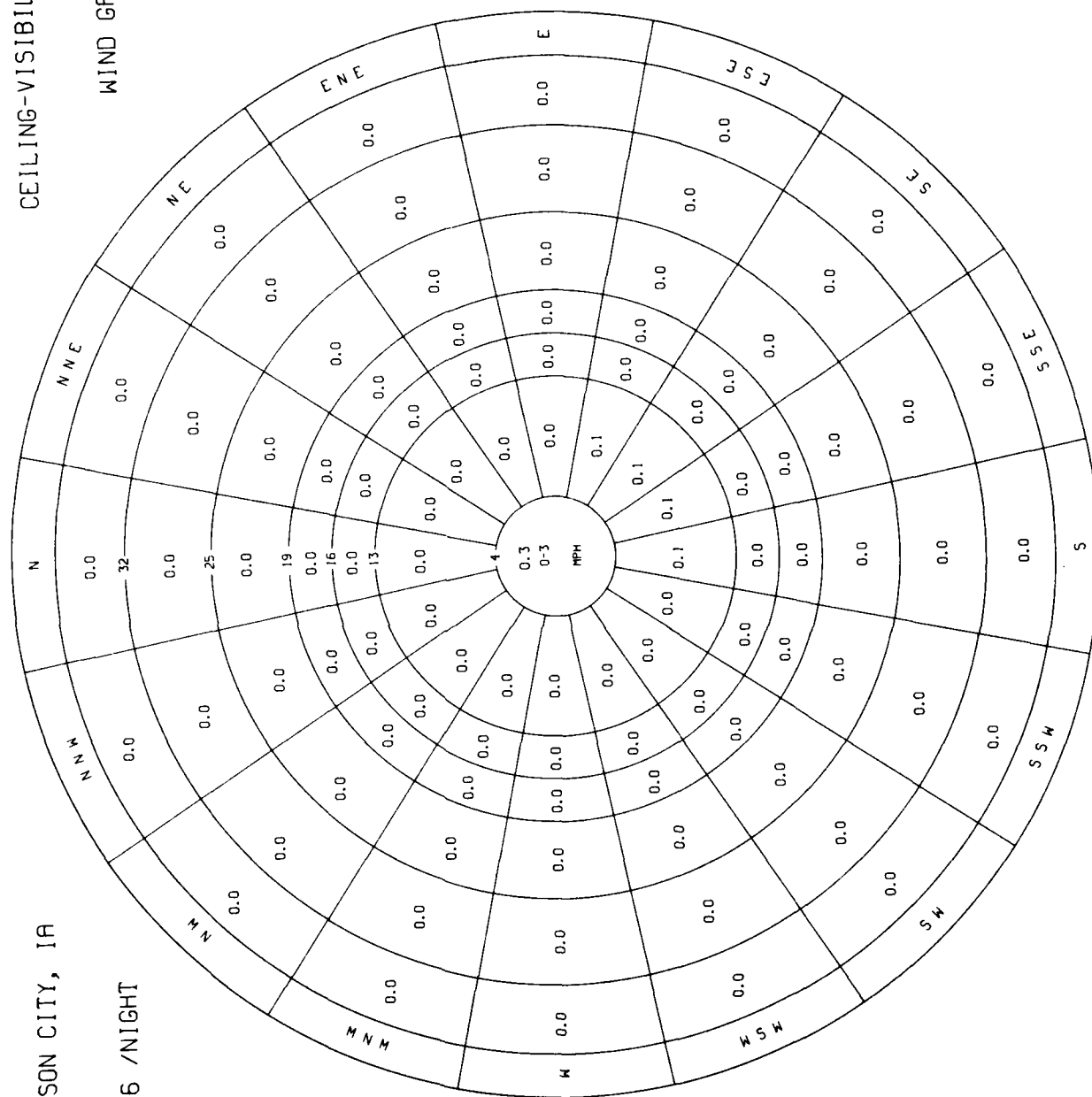
STATION NUMBER: 14940

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.9	.0	2.9	.0	.3	.0	.3	.0	.9	.0	.9	.0	1.4	.1	7.4	17.2
NNE	.0	.6	.0	2.9	.0	.3	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.9	10.1
NE	.0	.9	.0	2.3	.0	.6	.0	.3	.0	.3	.0	.0	.0	.0	.0	4.3	9.2
ENE	.0	.9	.0	2.6	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	4.0	9.1
E	.0	.9	.0	5.4	.0	.9	.0	.3	.0	.6	.0	.0	.0	.0	.1	8.0	9.7
ESE	.0	.6	.1	9.1	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	10.6	8.9
SE	.0	.9	.0	3.1	.0	.6	.0	2.0	.0	1.1	.0	.0	.0	.0	.1	7.7	12.4
SSE	.0	.9	.0	6.0	.0	1.1	.0	.9	.0	.0	.0	.0	.0	.0	.1	8.9	9.8
S	.0	1.4	.1	7.4	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	9.7	8.4
SSW	.0	.0	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	9.6
SW	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0
WSW	.0	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.4
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.3	.0	.6	.0	.9	.0	3.4	19.3
WNW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	.0	2.3	.0	2.0	.1	7.1	25.3
NW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.3	.0	2.9	12.8
NNW	.0	.6	.0	.9	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0	3.1	15.4
CALM	.1	14.6													.1	14.6	
TOTAL	.2	23.4	.4	50.3	.0	5.1	.0	5.7	.0	6.0	.0	4.9	.0	4.6	.7	100	10.5

MCW MASON CITY, IA

WIND GRAPH

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MCW MASON CITY, IA

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14940

NO. OBS.: 497

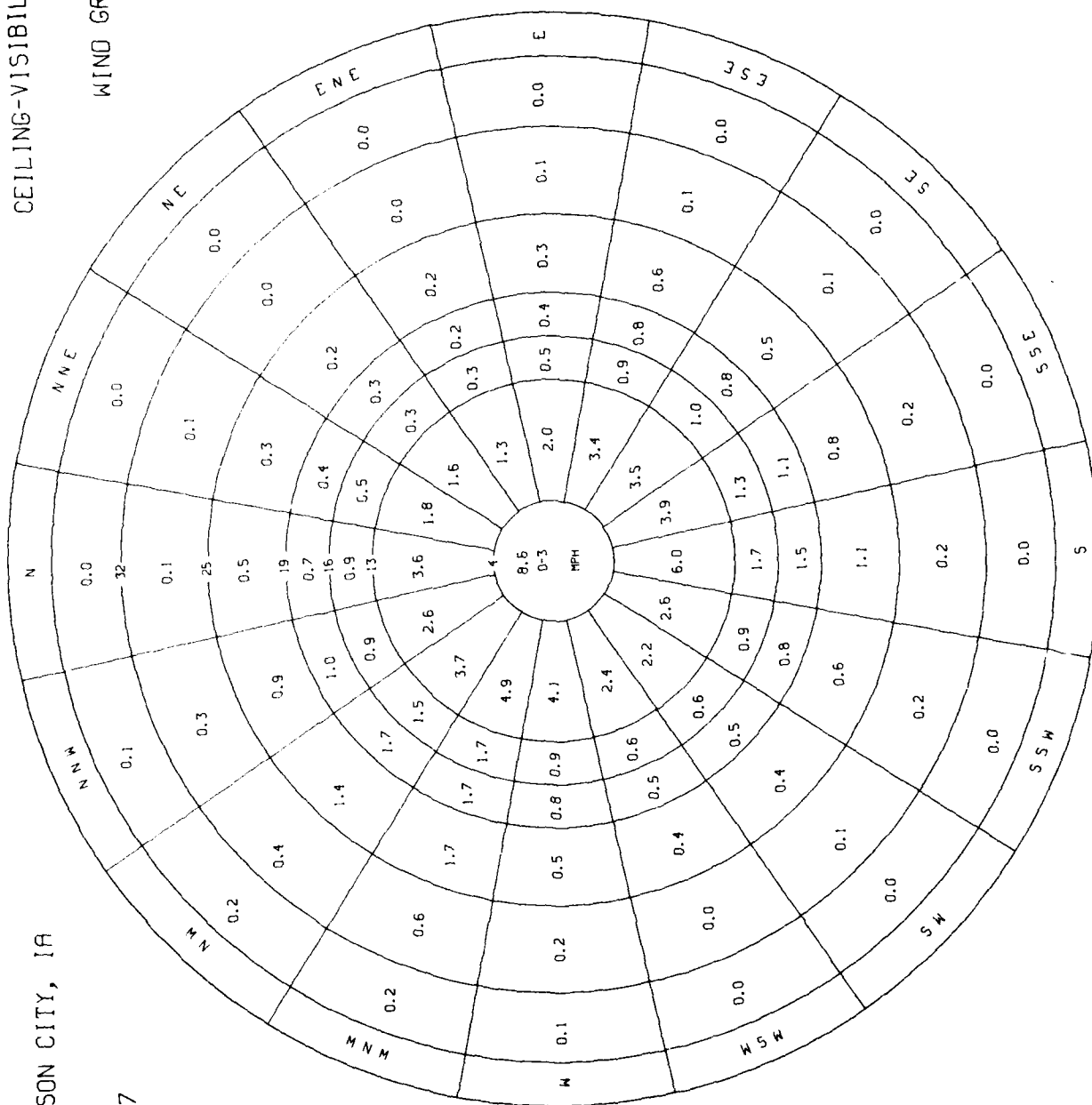
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	2.8	.0	.2	.0	.2	.0	.6	.0	.6	.0	1.0	.1 6.0
NNE	.0	.6	.0	2.4	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0 3.4
NE	.0	.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
ENE	.0	.4	.0	2.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 3.2
E	.0	1.0	.0	3.0	.0	.2	.0	.4	.0	.6	.0	.0	.0	.0	.1 5.2
ESE	.0	.0	.1	5.8	.0	1.0	.0	.0	.0	.4	.0	.0	.0	.0	.1 7.2
SE	.0	.8	.1	6.0	.0	1.0	.0	1.6	.0	.2	.0	.0	.0	.0	.1 9.7
SSE	.0	.8	.1	7.6	.0	2.0	.0	.8	.0	.8	.0	.0	.0	.0	.1 12.1
S	.0	1.8	.1	7.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.5
SSW	.0	.0	.0	1.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
SW	.0	.2	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
WSW	.0	.2	.0	1.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
W	.0	1.6	.0	2.6	.0	.0	.0	.2	.0	.0	.0	.4	.0	.4	.1 5.2
WNW	.0	.4	.0	2.4	.0	.6	.0	.2	.0	1.2	.0	1.6	.0	1.4	.1 7.8
NW	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.2	.0 1.8
NNW	.0	.0	.0	2.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.6	.0 3.0
CALM	.2	18.1													.2 18.1
TOTAL	.3	27.2	.6	51.9	.1	6.4	.0	3.8	.0	3.8	.0	3.2	.0	3.6	1.2 100

CEILING-VISIBILITY

WIND GRAPH

MCW MASON CITY, IA

CLASS 7

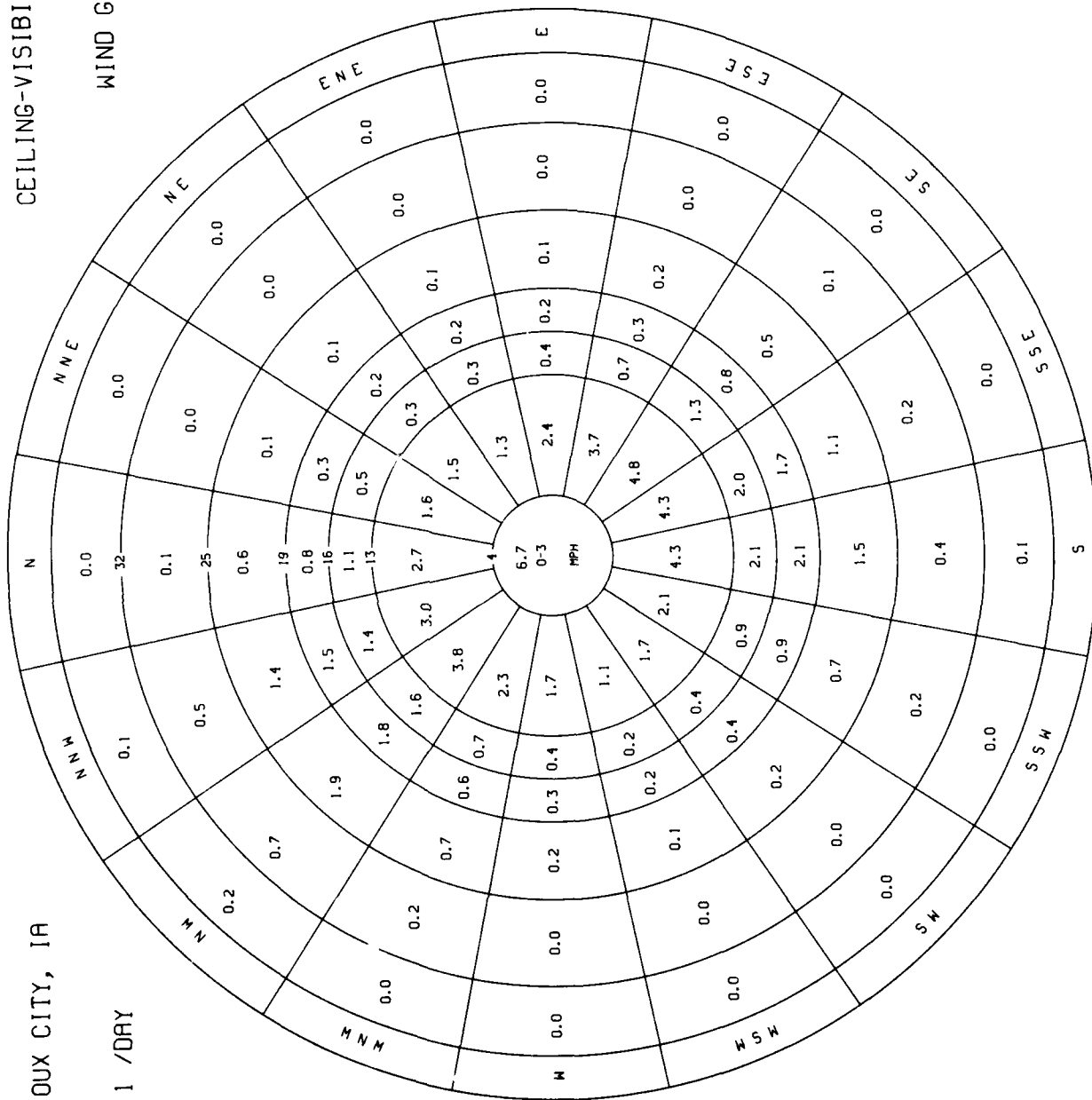


CEILING-VISIBILITY

WIND GRAPH

SUX SIOUX CITY, IA

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SUX SIOUX CITY, IA

CLASS 1 / DAY

NO. OBS.: 42509

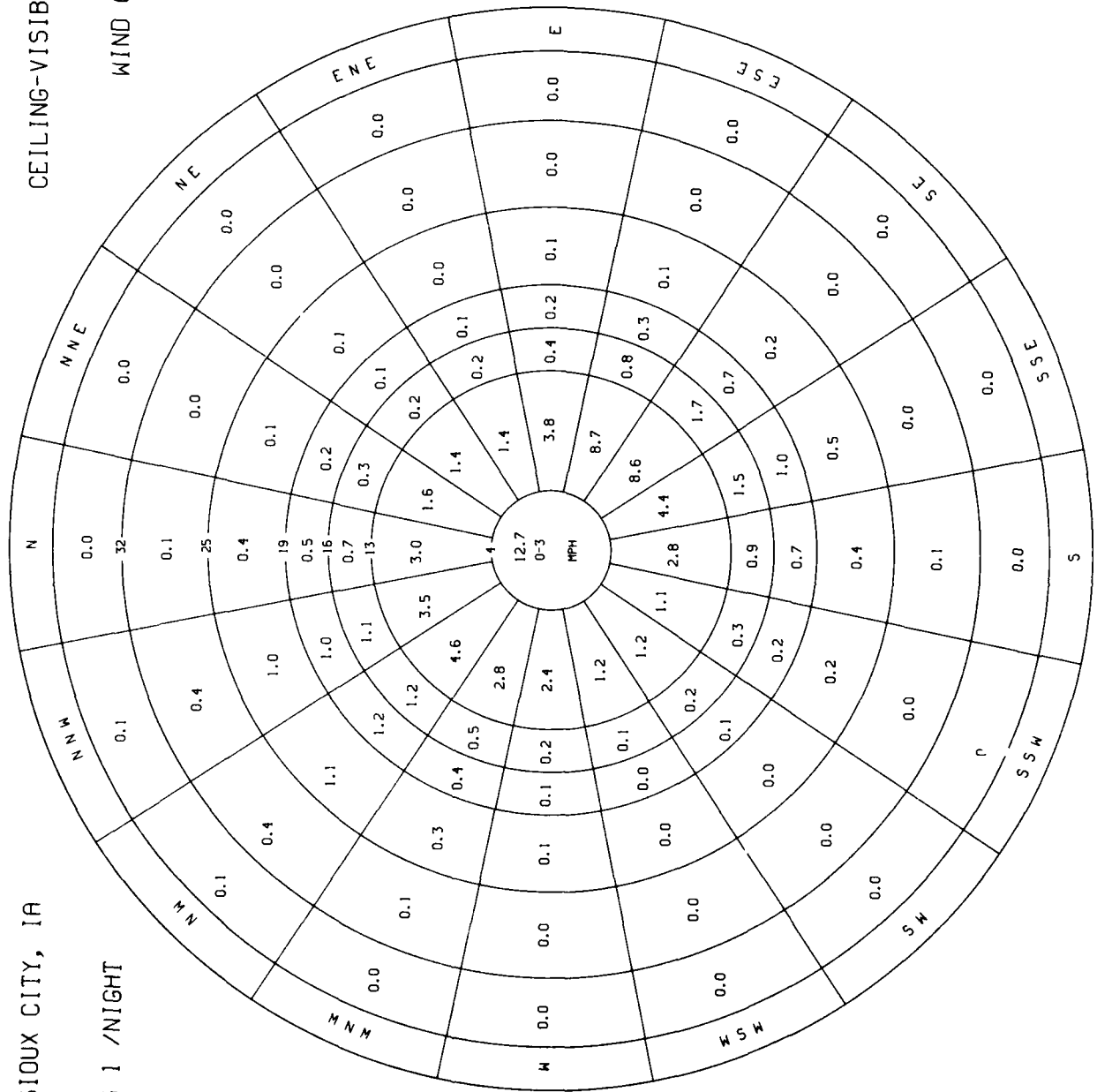
STATION NUMBER: 14943

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.4	.4	2.7	3.0	1.1	1.2	.8	1.0	.6	.7	.1	.2	.0	.0	5.7	6.5	12.4
NNE	.2	.2	1.6	1.8	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.7	3.1	10.6
NE	.2	.3	1.5	1.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.7	9.7
ENE	.2	.2	1.3	1.5	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.1	2.3	9.9
E	.4	.5	2.4	2.7	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.0	9.1
ESE	.4	.4	3.7	4.1	.7	.8	.3	.4	.2	.2	.0	.0	.0	.0	5.3	6.0	9.7
SE	.4	.5	4.8	5.5	1.3	1.5	.8	.9	.5	.6	.1	.1	.0	.0	7.9	9.0	10.9
SSE	.3	.4	4.3	4.9	2.0	2.2	1.7	1.9	1.1	1.3	.2	.3	.0	.0	9.7	11.0	13.1
S	.4	.5	4.3	4.8	2.1	2.3	2.1	2.4	1.5	1.8	.4	.4	.1	.1	10.9	12.4	13.8
SSW	.2	.2	2.1	2.4	.9	1.0	.9	1.1	.7	.8	.2	.2	.0	.0	5.1	5.8	13.5
SW	.3	.3	1.7	1.9	.4	.5	.4	.5	.2	.2	.0	.0	.0	.0	3.1	3.5	10.8
WSW	.2	.3	1.1	1.2	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	1.9	2.1	10.0
W	.3	.4	1.7	2.0	.4	.4	.3	.4	.2	.2	.0	.1	.0	.0	3.0	3.4	10.4
WNW	.3	.4	2.3	2.6	.7	.8	.6	.7	.7	.7	.2	.2	.0	.0	4.9	5.5	12.6
NW	.5	.5	3.8	4.3	1.6	1.8	1.8	2.0	1.9	2.2	.7	.8	.2	.2	10.5	11.8	14.6
NNW	.4	.4	3.0	3.4	1.4	1.6	1.5	1.7	1.4	1.5	.5	.6	.1	.2	8.3	9.4	14.5
CALM	1.4	1.6													1.4	1.6	
TOTAL	6.7	7.6	42.3	47.9	14.4	16.3	12.3	13.9	9.4	10.7	2.6	2.9	.6	.7	88.4	100	12.2

SUX SIOUX CITY, IA

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14943

NO. OBS.: 37368

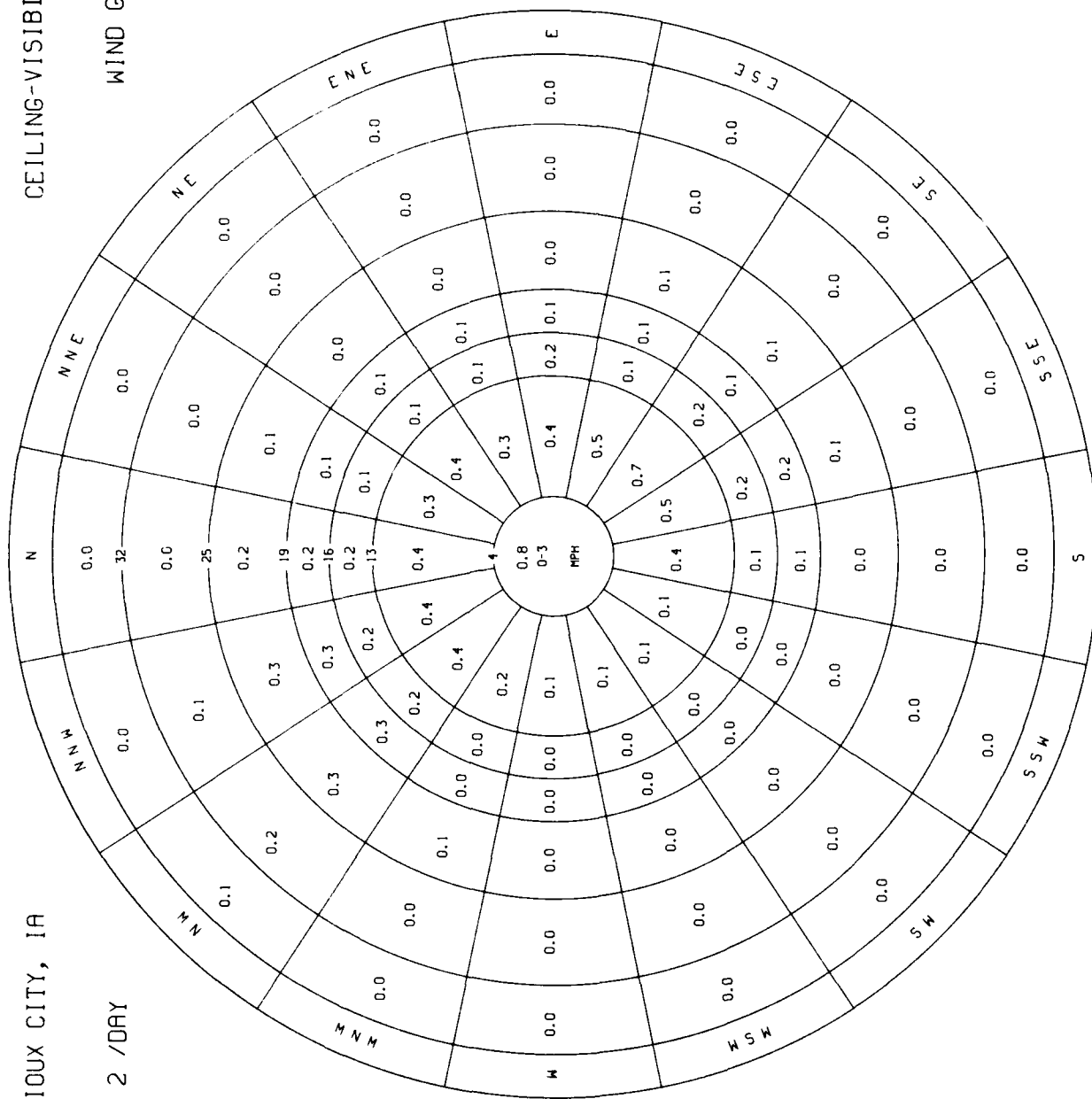
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.7	.8	3.0	3.4	.7	.8	.5	.6	.4	.4	.1	.1	.0	.0	5.4	6.2	10.3
NNE	.4	.4	1.6	1.8	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.5	2.9	8.8
NENE	.4	.4	1.4	1.6	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.4	8.4
ENE	.4	.4	1.4	1.6	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.5	8.4
E	.8	1.0	3.8	4.3	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	5.3	6.0	7.9
ESE	.7	.8	8.7	9.9	.8	.9	.3	.3	.1	.1	.0	.0	.0	.0	10.6	12.0	8.5
SE	.6	.7	8.6	9.8	1.7	1.9	.7	.7	.2	.2	.0	.0	.0	.0	11.8	13.4	9.5
SSE	.5	.5	4.4	5.0	1.5	1.7	1.0	1.1	.5	.6	.0	.1	.0	.0	7.8	8.9	11.3
S	.5	.5	2.8	3.1	.9	1.0	.7	.8	.4	.5	.1	.1	.0	.0	5.3	6.1	11.2
SSW	.3	.4	1.1	1.3	.3	.4	.2	.2	.2	.2	.0	.0	.0	.0	2.2	2.5	10.3
SW	.5	.6	1.2	1.4	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	2.0	2.3	7.5
WSW	.4	.5	1.2	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.0	6.8
W	.8	.9	2.4	2.7	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.6	4.1	7.4
WNW	.7	.8	2.8	3.1	.5	.6	.4	.5	.3	.3	.1	.1	.0	.0	4.8	5.4	9.7
NW	.8	.9	4.6	5.2	1.2	1.4	1.2	1.3	1.1	1.3	.4	.4	.1	.1	9.4	10.6	12.2
NNW	.7	.8	3.5	4.0	1.1	1.2	1.0	1.1	1.0	1.1	.4	.4	.1	.1	7.8	8.8	12.5
CALM	3.5	4.0													3.5	4.0	
TOTAL	12.7	14.4	52.4	59.6	10.2	11.6	6.8	7.7	4.5	5.1	1.1	1.3	.3	.3	88.0	100	9.5

CEILING-VISIBILITY

WIND GRAPH

SUX SIOUX CITY, IA

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SUX SIOUX CITY, IA

CLASS 2 / DAY

NO. OBS.: 5601

STATION NUMBER: 14943

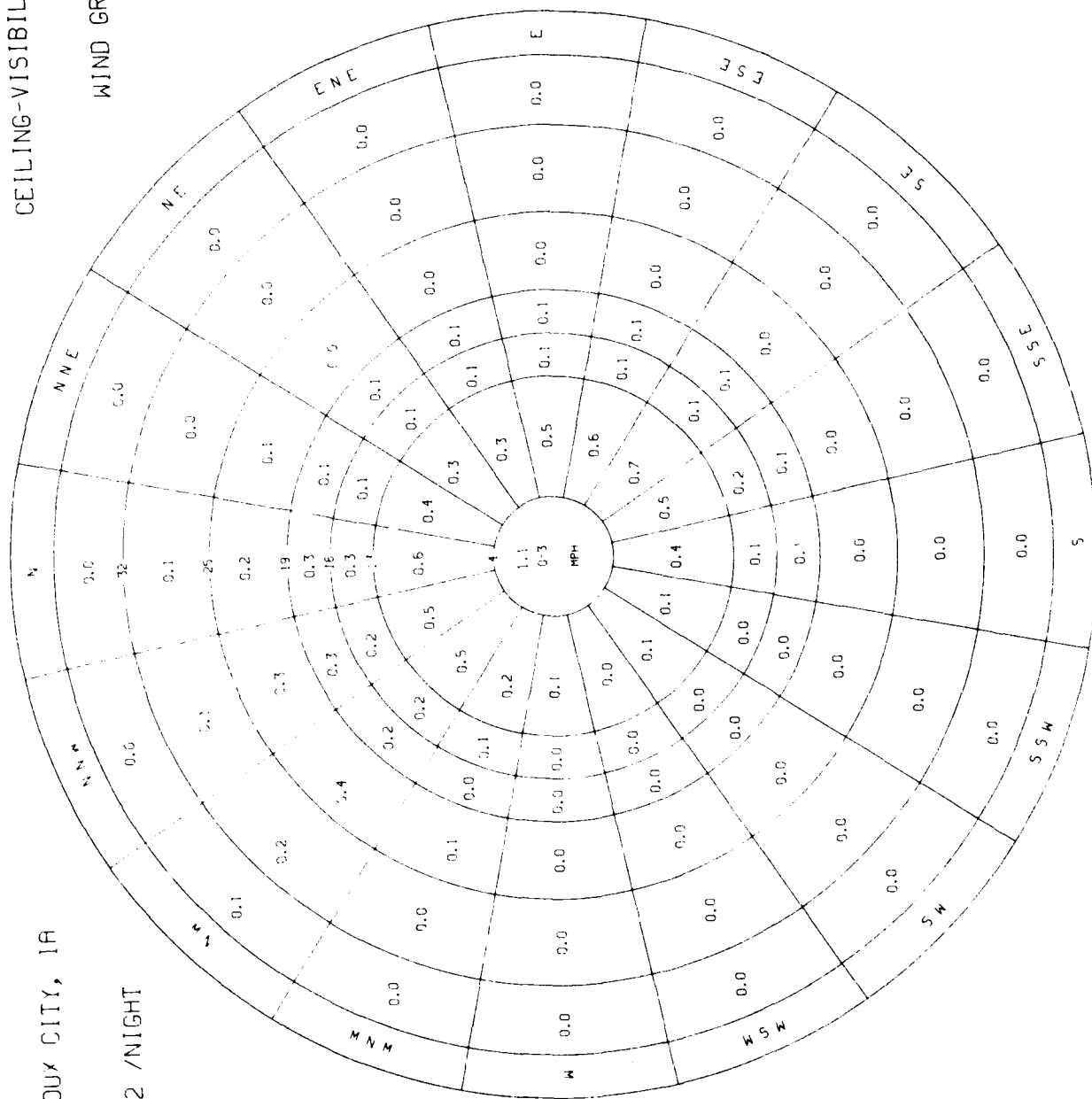
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.4	3.8	.2	1.9	.2	1.6	.2	1.4	.0	.4	.0	.0	1.1	9.6	13.7
NNE	.0	.2	.3	2.6	.1	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.6	5.3	12.4
NE	.0	.4	.4	3.0	.1	1.0	.1	.5	.0	.4	.0	.2	.0	.0	.6	5.5	11.5
ENE	.0	.3	.3	2.6	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.6	4.8	11.5
E	.1	.5	.4	3.7	.2	1.4	.1	.8	.0	.3	.0	.0	.0	.0	.8	6.7	10.8
ESE	.0	.4	.5	4.3	.1	1.3	.1	1.0	.1	.8	.0	.1	.0	.0	.9	7.8	11.7
SE	.0	.4	.7	5.6	.2	1.8	.1	1.2	.1	.8	.0	.1	.0	.0	1.1	9.9	11.4
SSE	.0	.4	.5	4.4	.2	1.9	.2	1.5	.1	.6	.0	.2	.0	.0	1.0	8.9	12.2
S	.0	.2	.4	3.2	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.6	5.5	11.1
SSW	.0	.2	.1	1.2	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.2	2.1	11.1
SW	.0	.2	.1	.9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.3	8.2
WSW	.0	.2	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	9.6
W	.0	.3	.1	1.0	.0	.2	.0	.1	.0	.1	.0	.1	.0	.0	.2	1.8	10.4
WNW	.0	.3	.2	1.7	.0	.4	.0	.3	.1	.5	.0	.2	.0	.1	.4	3.5	12.8
NW	.0	.4	.4	3.3	.2	1.9	.3	2.2	.3	2.6	.2	1.5	.1	.6	1.5	12.6	17.1
NNW	.0	.3	.4	3.2	.2	1.9	.3	2.5	.3	2.5	.1	1.2	.0	.3	1.4	11.9	16.4
CALM	.2	2.1													.2	2.1	
TOTAL	.8	7.2	5.2	45.1	2.0	16.9	1.6	14.1	1.3	11.2	.5	4.3	.1	1.2	11.6	100	12.8

CEILING-VISIBILITY

WIND GRAPH

SUX SIOUX CITY, IA

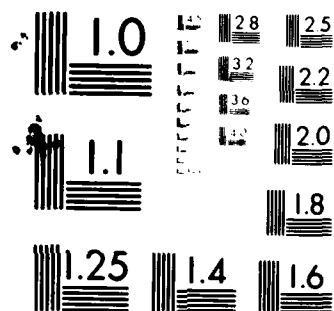
CLASS 2 / NIGHT



NL

2

201
04-12



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SUX SIOUX CITY, IA

CLASS 2 / NIGHT

NO. OBS.: 5101

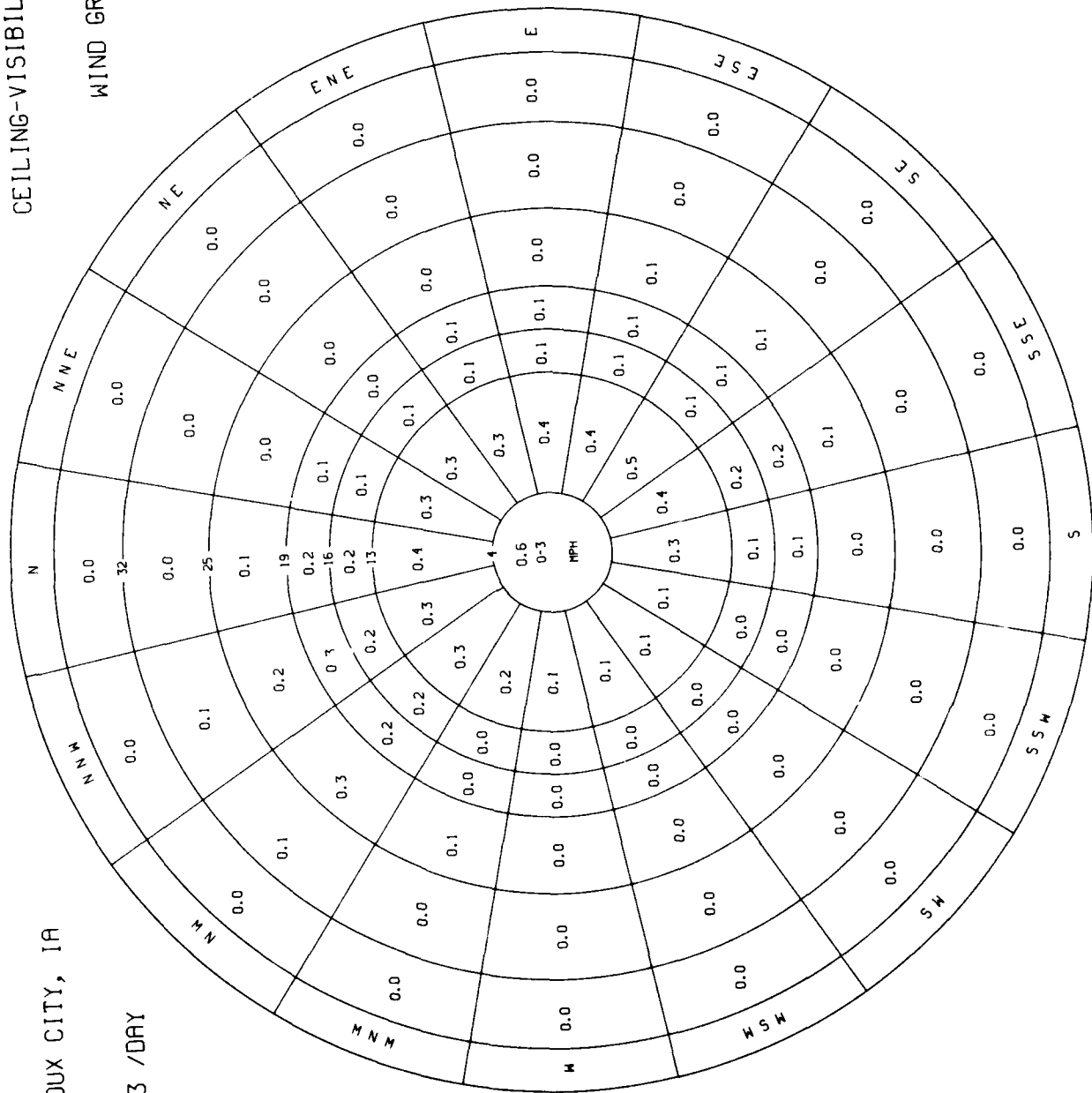
STATION NUMBER: 14943

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.5	.6	4.6	.3	2.2	.3	2.1	.2	1.5	.1	.4	.0	.1	1.4	11.4	13.6
NNE	.0	.3	.4	2.9	.1	1.1	.1	.9	.1	.5	.0	.1	.0	.0	.7	5.8	12.2
NE	.0	.1	.3	2.8	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.6	4.6	11.1
ENE	.0	.3	.3	2.5	.1	.6	.1	.4	.0	.2	.0	.1	.0	.0	.5	4.2	10.6
E	.1	.6	.5	3.8	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.7	5.6	9.6
ESE	.1	.7	.6	5.2	.1	1.1	.1	.8	.0	.4	.0	.0	.0	.0	1.0	8.3	10.1
SE	.1	.6	.7	5.5	.1	1.2	.1	.8	.0	.3	.0	.0	.0	.0	1.0	8.4	9.9
SSE	.1	.5	.5	4.4	.2	1.6	.1	1.0	.0	.3	.0	.0	.0	.0	1.0	8.0	11.1
S	.0	.4	.4	3.2	.1	1.1	.1	.5	.0	.3	.0	.0	.0	.0	.7	5.5	10.9
SSW	.0	.3	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.6	9.2
SW	.0	.1	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	8.2
WSW	.0	.2	.0	.4	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1	.9	8.8
W	.1	.4	.1	1.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.2	2.0	8.9
WNW	.0	.3	.2	1.8	.1	.5	.0	.4	.1	.5	.0	.2	.0	.2	.5	3.9	13.0
NW	.1	.6	.5	3.9	.2	2.0	.2	1.9	.4	2.9	.2	1.3	.1	.7	1.6	13.3	16.4
NNW	.1	.5	.5	4.1	.2	2.0	.3	2.6	.3	2.6	.1	.7	.0	.4	1.6	12.9	15.5
CALM	.3	2.8													.3	2.8	
TOTAL	1.1	9.1	5.7	47.8	1.9	15.5	1.5	12.9	1.2	10.2	.4	3.0	.2	1.5	12.0	100	12.0

SUX SIOUX CITY, IA

CLASS 3 / DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SUX SIOUX CITY, IA

CLASS 3 / DAY

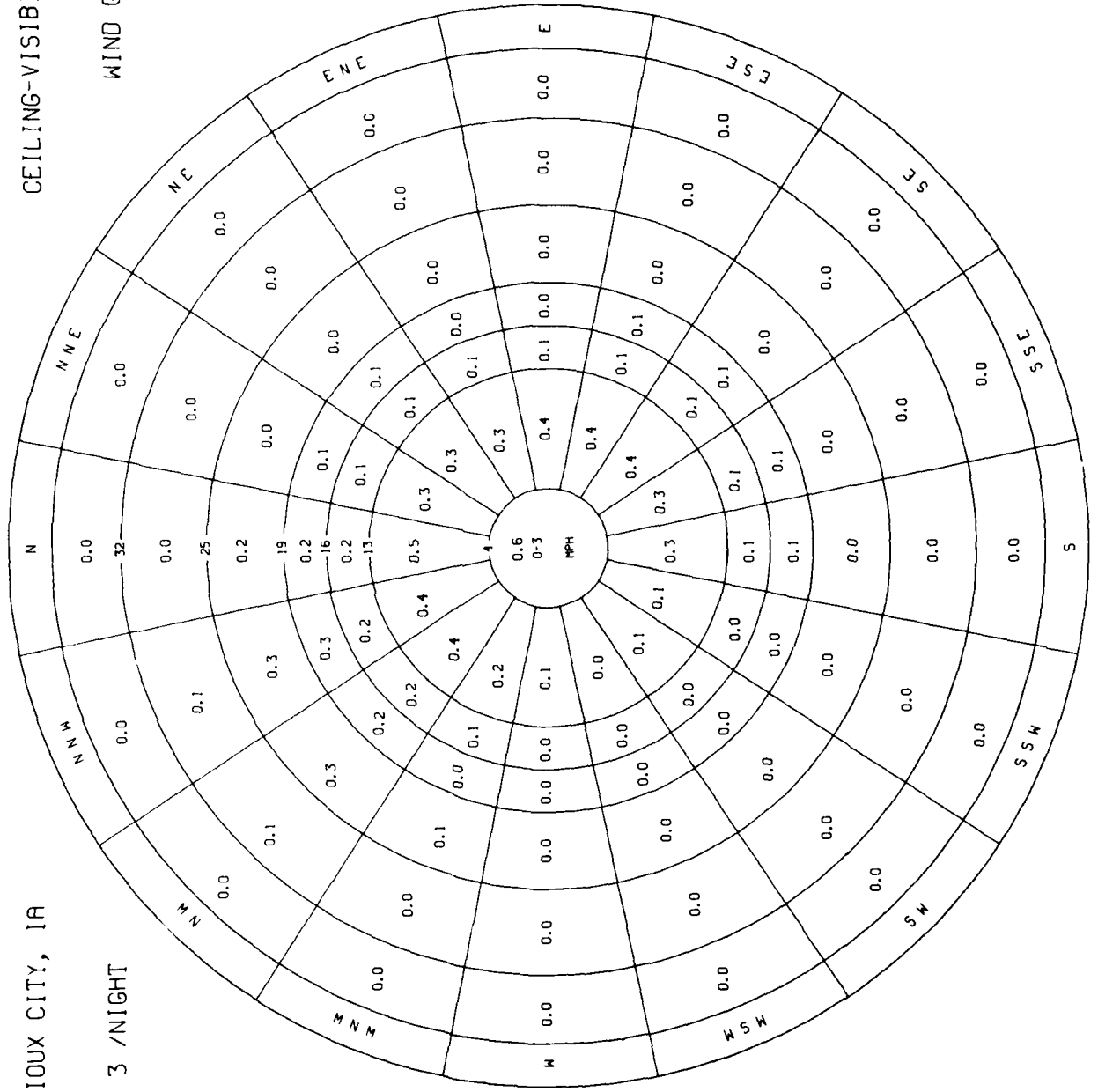
NO. OBS.: 4716

STATION NUMBER: 14943

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.4	4.1	.2	2.2	.2	1.8	.1	1.2	.0	.3	.0	.0	1.0 10.0
NNE	.0	.3	.3	2.8	.1	1.1	.1	.7	.0	.4	.0	.1	.0	.0	.5 5.4
NNE	.0	.4	.3	3.2	.1	1.0	.0	.5	.0	.5	.0	.2	.0	.0	.6 5.9
ENE	.0	.2	.3	2.8	.1	.9	.1	.7	.0	.4	.0	.1	.0	.0	.5 5.0
E	.0	.4	.4	3.7	.1	1.4	.1	.8	.0	.4	.0	.0	.0	.0	.7 6.8
ESE	.0	.3	.4	4.1	.1	1.3	.1	1.0	.1	.9	.0	.1	.0	.0	.8 7.7
SE	.0	.2	.5	5.0	.1	1.5	.1	1.2	.1	.8	.0	.1	.0	.0	.9 8.9
SSE	.0	.3	.4	4.0	.2	1.9	.2	1.6	.1	.6	.0	.2	.0	.0	.9 8.7
S	.0	.1	.3	3.1	.1	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.5 5.5
SSW	.0	.2	.1	1.3	.0	.2	.0	.3	.0	.2	.0	.0	.0	.0	.2 2.2
SW	.0	.2	.1	.8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.2
WSW	.0	.1	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 .9
W	.0	.2	.1	1.0	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.2 1.8
WNW	.0	.3	.2	1.8	.0	.4	.0	.3	.1	.6	.0	.2	.0	.1	.4 3.8
NW	.0	.3	.3	3.2	.2	2.1	.2	2.5	.3	2.9	.1	1.4	.0	.3	1.2 12.7
NNW	.0	.2	.3	3.2	.2	2.0	.3	2.8	.2	2.5	.1	1.1	.0	.2	1.2 12.0
CALM	.2	1.6													.2 1.6
TOTAL	.6	5.6	4.4	44.7	1.7	17.7	1.5	15.2	1.2	11.9	.4	4.1	.1	.8	9.8 100
															13.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 3 / NIGHT

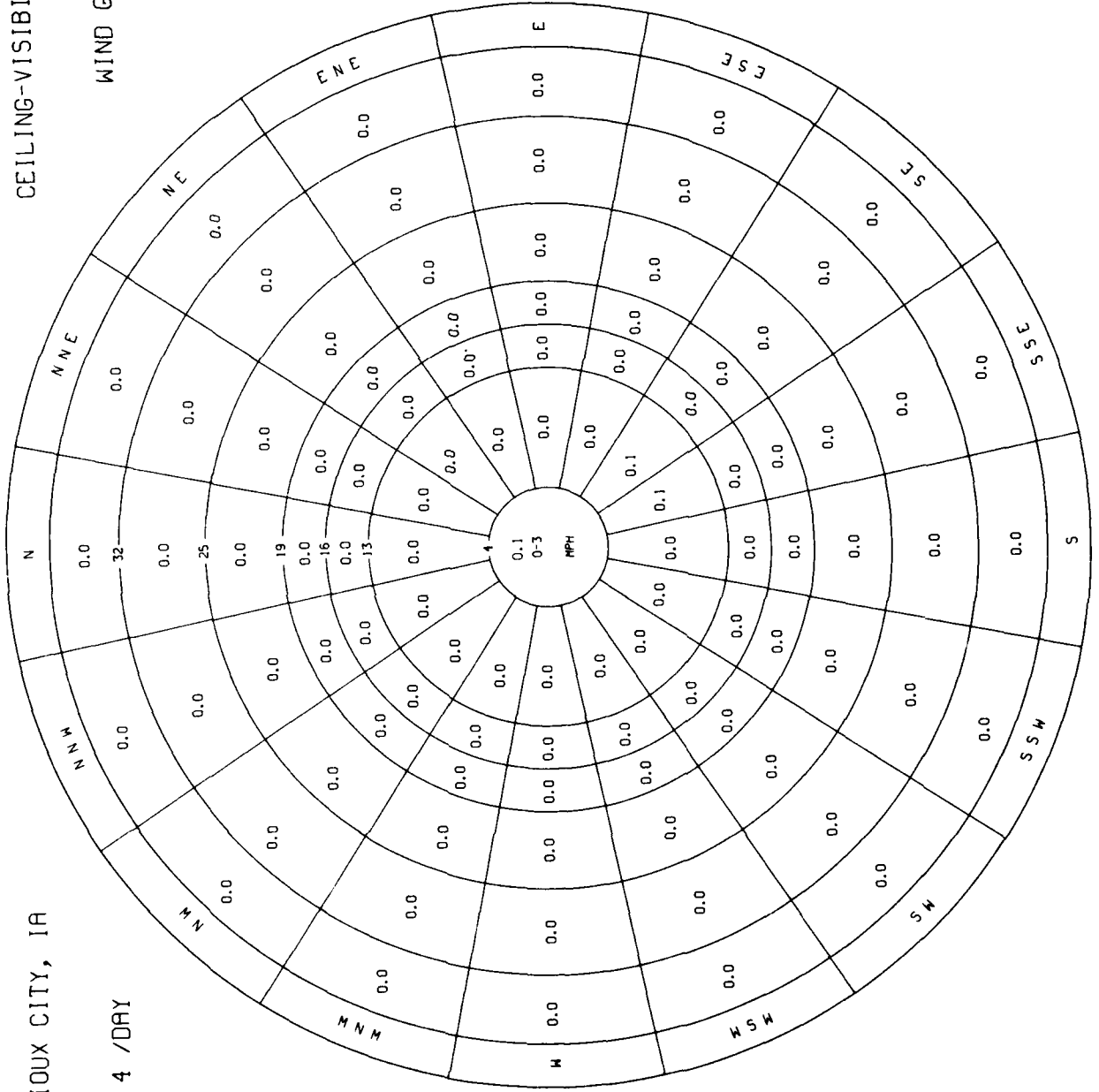
STATION NUMBER: 14943

NO. OBS.: 3992

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.5	5.0	.2	2.7	.2	2.6	.2	1.6	.0	.4	.0	.1	1.2	12.8	13.6
NNE	.0	.2	.3	3.3	.1	1.3	.1	1.0	.0	.5	.0	.2	.0	.0	.6	6.5	12.3
NE	.0	.1	.3	3.0	.1	.9	.1	.7	.0	.4	.0	.1	.0	.0	.5	5.1	11.3
ENE	.0	.2	.3	2.8	.1	.7	.0	.5	.0	.3	.0	.1	.0	.0	.4	4.5	10.8
E	.1	.6	.4	4.0	.1	.7	.0	.5	.0	.2	.0	.0	.0	.1	.6	6.0	10.0
ESE	.0	.5	.4	4.2	.1	1.1	.1	.9	.0	.4	.0	.1	.0	.0	.7	7.2	10.9
SE	.0	.5	.4	4.3	.1	1.3	.1	.8	.0	.3	.0	.0	.0	.0	.7	7.2	10.4
SSE	.0	.4	.3	3.6	.1	1.5	.1	.8	.0	.4	.0	.1	.0	.0	.6	6.6	11.6
S	.0	.3	.3	3.1	.1	1.2	.1	.6	.0	.3	.0	.0	.0	.0	.5	5.4	11.2
SSW	.0	.1	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	1.5	10.4
SW	.0	.1	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	9.0
WSW	.0	.2	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1	.8	10.1
W	.0	.3	.1	1.0	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.9	9.6
WNW	.0	.2	.2	1.8	.1	.7	.0	.5	.1	.6	.0	.2	.0	.1	.4	4.0	13.1
NW	.0	.4	.4	3.8	.2	2.1	.2	2.2	.3	3.6	.1	1.4	.0	.4	1.3	13.8	16.6
NNW	.0	.3	.4	4.3	.2	2.3	.3	3.2	.3	3.1	.1	.8	.0	.3	1.3	14.2	15.7
CALM	.2	1.8													.2	1.8	
TOTAL	.6	6.5	4.3	45.9	1.6	17.2	1.4	14.5	1.1	11.8	.3	3.3	.1	.9	9.4	100	12.7

CEILING-VISIBILITY

WIND GRAPH



SUX SIOUX CITY, IA

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 4 / DAY

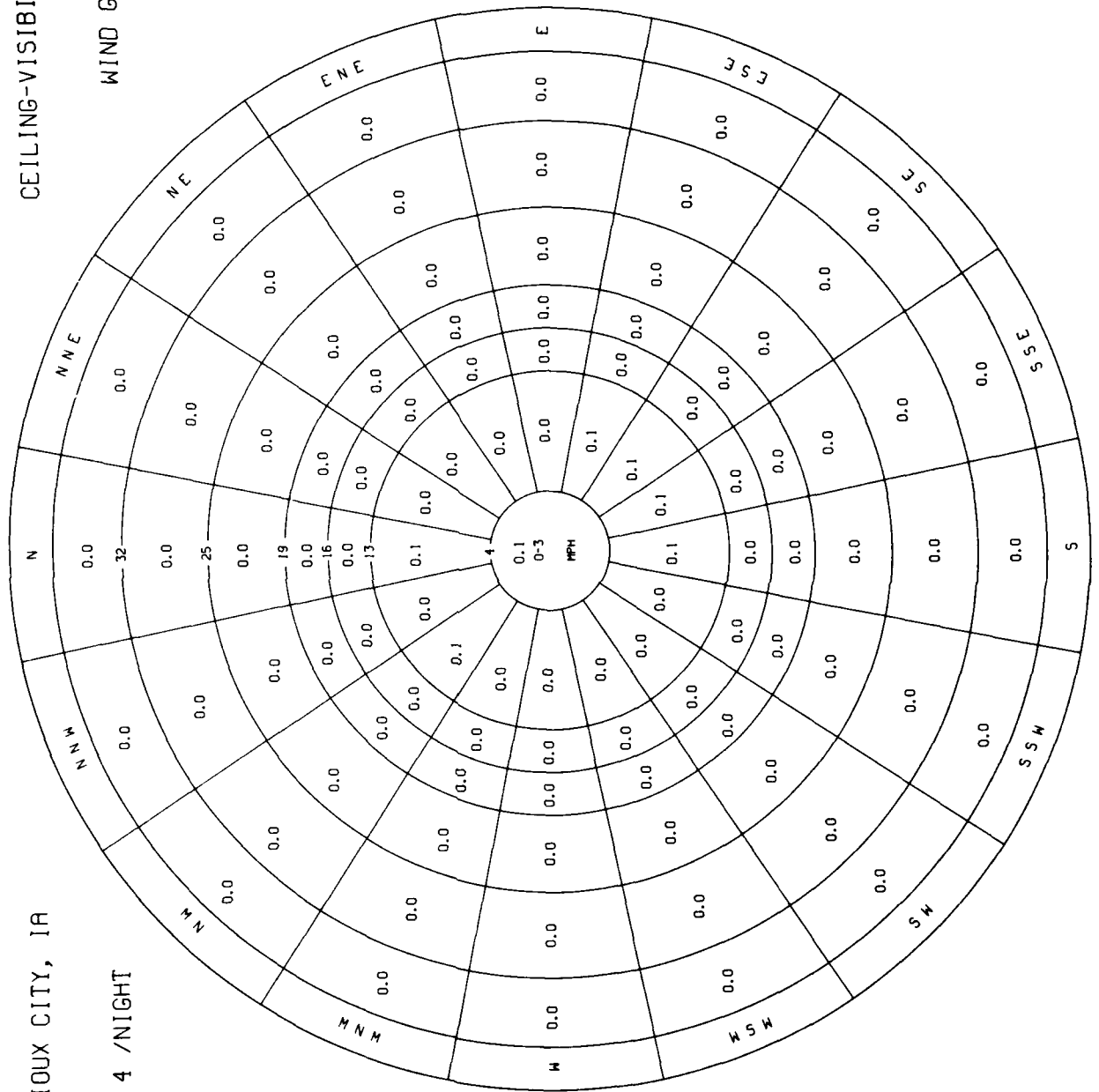
NO. OBS.: 561

STATION NUMBER: 14943

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	2.7	.0	.5	.0	.9	.0	2.3	.0	1.4	.0	.0	.1 8.6
NNE	.0	.2	.0	2.0	.0	1.1	.0	1.6	.0	.9	.0	.2	.0	.0	.1 5.9
NE	.0	.2	.0	2.5	.0	.9	.0	.5	.0	.2	.0	.4	.0	.0	.1 4.6
ENE	.0	.2	.0	2.1	.0	1.1	.0	.2	.0	.2	.0	.0	.0	.0	.0 3.7
E	.0	.5	.0	3.9	.0	1.2	.0	.9	.0	.0	.0	.0	.0	.0	.1 6.6
ESE	.0	.4	.0	4.3	.0	1.6	.0	.7	.0	.0	.0	.0	.0	.0	.1 7.0
SE	.0	.9	.1	6.6	.0	3.7	.0	.5	.0	.9	.0	.0	.0	.0	.1 12.7
SSE	.0	.5	.1	6.6	.0	1.4	.0	.9	.0	.5	.0	.0	.0	.0	.1 10.0
S	.0	.9	.0	3.9	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.1
SSW	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	.4	.0	2.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 2.7
W	.0	.4	.0	.7	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0 .5
WNW	.0	.2	.0	1.1	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0 1.4
NW	.0	.7	.0	3.2	.0	1.6	.0	.9	.0	1.6	.0	2.7	.0	1.6	.1 12.3
NNW	.0	.4	.0	3.6	.0	1.4	.0	1.4	.0	2.5	.0	2.0	.0	.5	.1 11.8
CALM	.0	3.0													.0 3.0
TOTAL	.1	10.2	.5	46.3	.2	16.2	.1	9.3	.1	9.1	.1	6.8	.0	2.1	1.2 100 12.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 4 / NIGHT

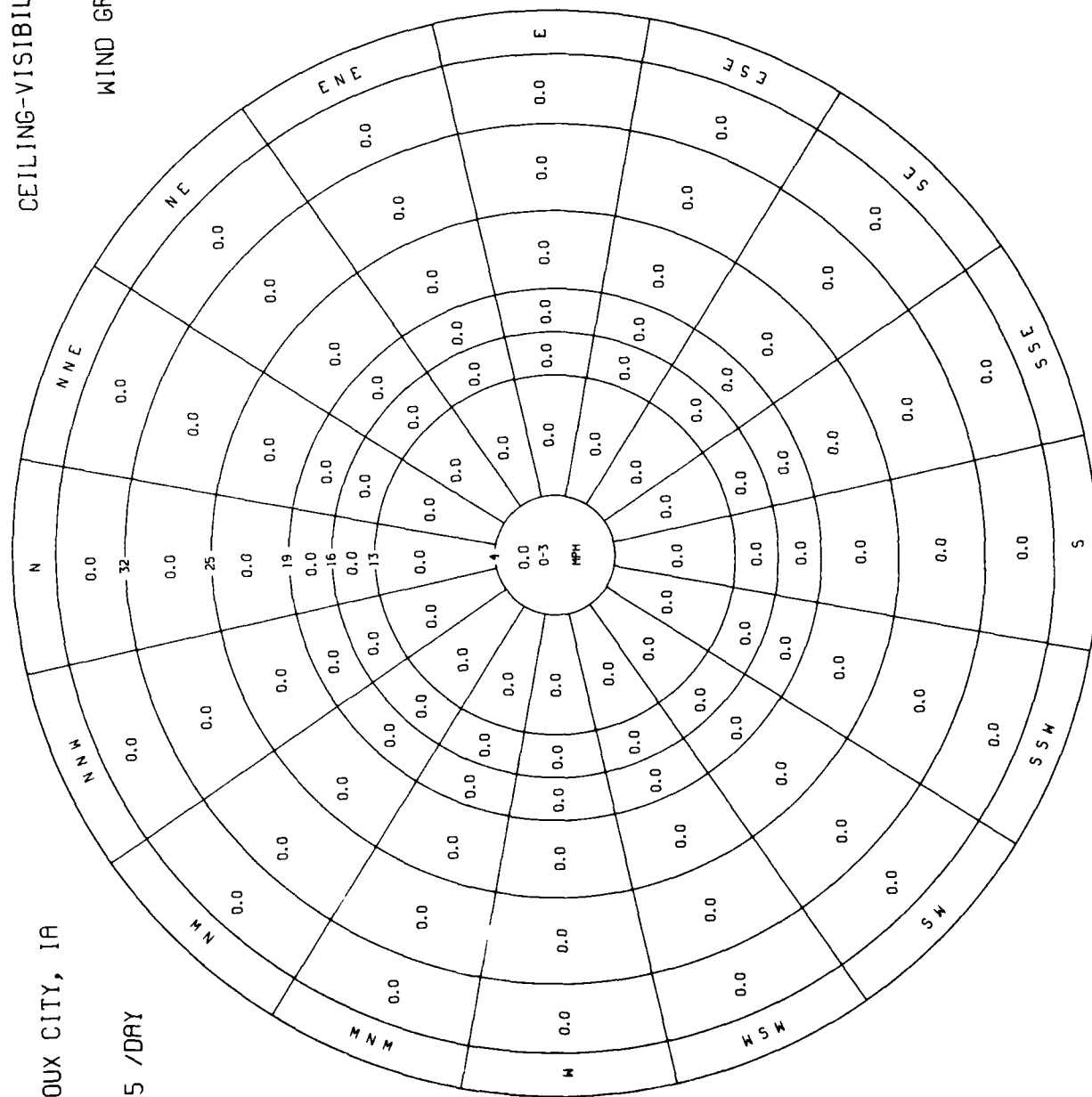
STATION NUMBER: 14943

NO. OBS.: 571

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	4.7	.0	.9	.0	.7	.0	1.4	.0	.4	.0	.2	.1	8.8	12.5
NNE	.0	.2	.0	2.8	.0	.4	.0	1.1	.0	.9	.0	.0	.0	.0	.1	5.3	12.4
NE	.0	.0	.0	3.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.0	9.3
ENE	.0	.7	.0	2.3	.0	.9	.0	.5	.0	.2	.0	.0	.0	.0	.1	4.6	9.5
E	.0	.5	.0	3.3	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.4	8.6
ESE	.0	.9	.1	5.4	.0	1.1	.0	.9	.0	.5	.0	.0	.0	.0	.1	8.8	9.8
SE	.0	.4	.1	8.2	.0	.9	.0	1.1	.0	.5	.0	.0	.0	.0	.1	11.0	10.0
SSE	.0	.7	.1	6.0	.0	2.1	.0	2.1	.0	.5	.0	.0	.0	.0	.2	11.4	11.4
S	.0	.5	.1	3.9	.0	1.2	.0	.9	.0	.5	.0	.0	.0	.0	.1	7.0	11.1
SSW	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.6
SW	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	7.6
WSW	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.6
W	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.7
WNW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.7	.0	2.5	18.3
NW	.0	.4	.1	4.7	.0	3.0	.0	1.9	.0	1.1	.0	1.6	.0	2.5	.2	15.1	17.9
NNW	.0	1.2	.0	2.3	.0	1.4	.0	1.1	.0	1.8	.0	.5	.0	.9	.1	9.1	15.7
CALM	.1	3.9													.1	3.9	
TOTAL	.1	11.0	.7	51.3	.2	12.4	.1	10.9	.1	7.7	.0	2.5	.1	4.2	1.3	100	11.8

CEILING-VISIBILITY

WIND GRAPH



SUX SIOUX CITY, IA

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SUX SIOUX CITY, IA

CLASS 5 / DAY

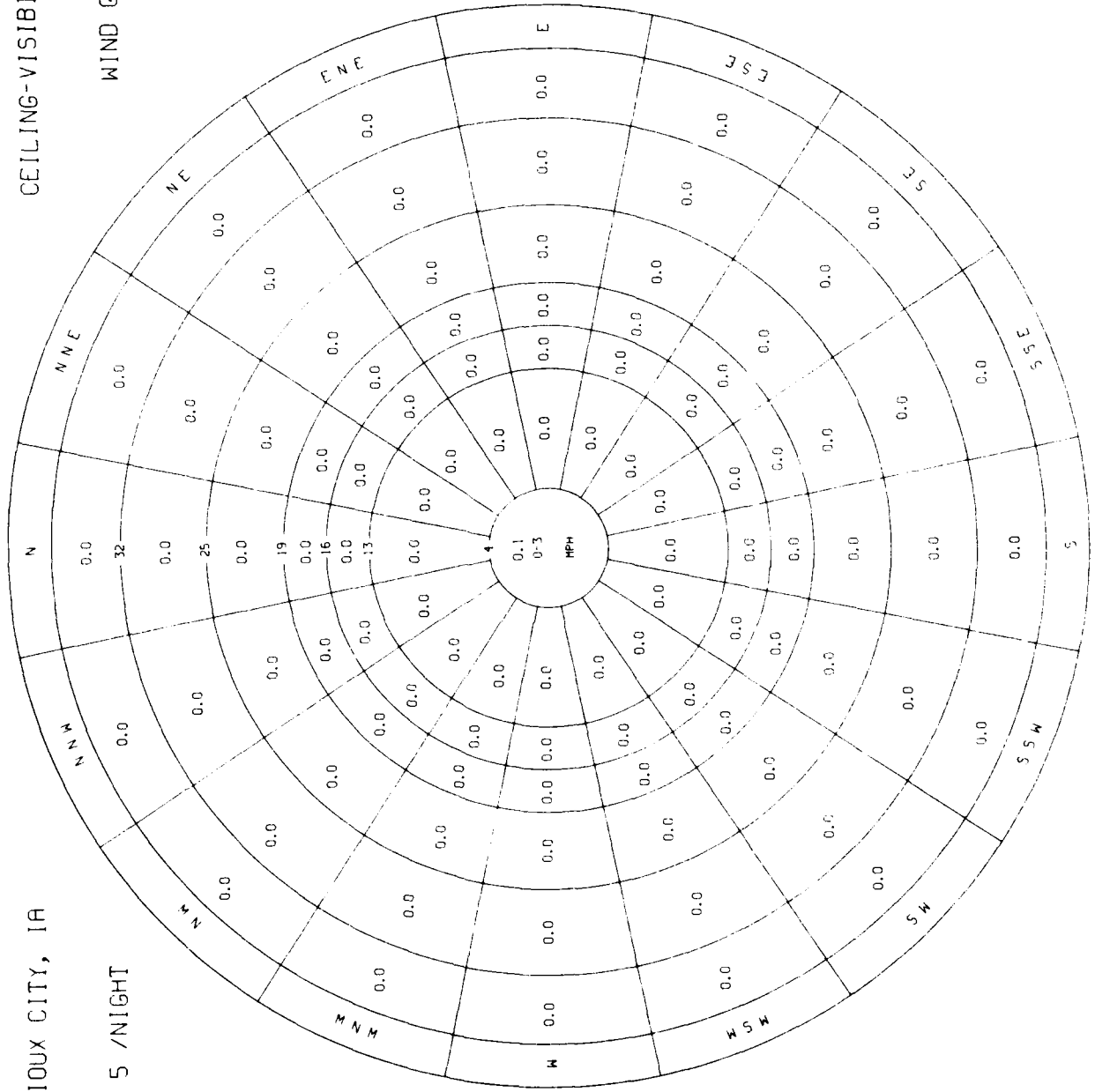
NO. OBS.: 138

STATION NUMBER: 14943

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	2.2	.0	.7	.0	.7	.0	2.9	.0	.7	.0	.0	.0 8.0
NNE	.0	.0	.0	1.4	.0	.7	.0	2.9	.0	.0	.0	.0	.0	.0	.0 5.1
NE	.0	.7	.0	2.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 3.6
ENE	.0	1.4	.0	1.4	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0 5.1
E	.0	.7	.0	4.3	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0 6.5
ESE	.0	.7	.0	6.5	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0 8.7
SE	.0	1.4	.0	7.2	.0	4.3	.0	2.2	.0	1.4	.0	.7	.0	.0	.0 17.4
SSE	.0	.0	.0	5.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.7
S	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
SSW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
SW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7
WSW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
W	.0	2.2	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.6
WNW	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
NW	.0	.0	.0	2.9	.0	.7	.0	1.4	.0	.0	.0	2.9	.0	4.3	.0 12.3
NNW	.0	.7	.0	1.4	.0	.0	.0	.0	.0	2.2	.0	2.9	.0	1.4	.0 8.7
CALM	.0	4.3													.0 4.3
TOTAL	.0	15.9	.1	42.0	.0	10.1	.0	12.3	.0	6.5	.0	7.2	.0	5.8	.3 100

CEILING-VISIBILITY

WIND GRAPH



SUX SIOUX CITY, IA

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14943

NO. OBS.: 205

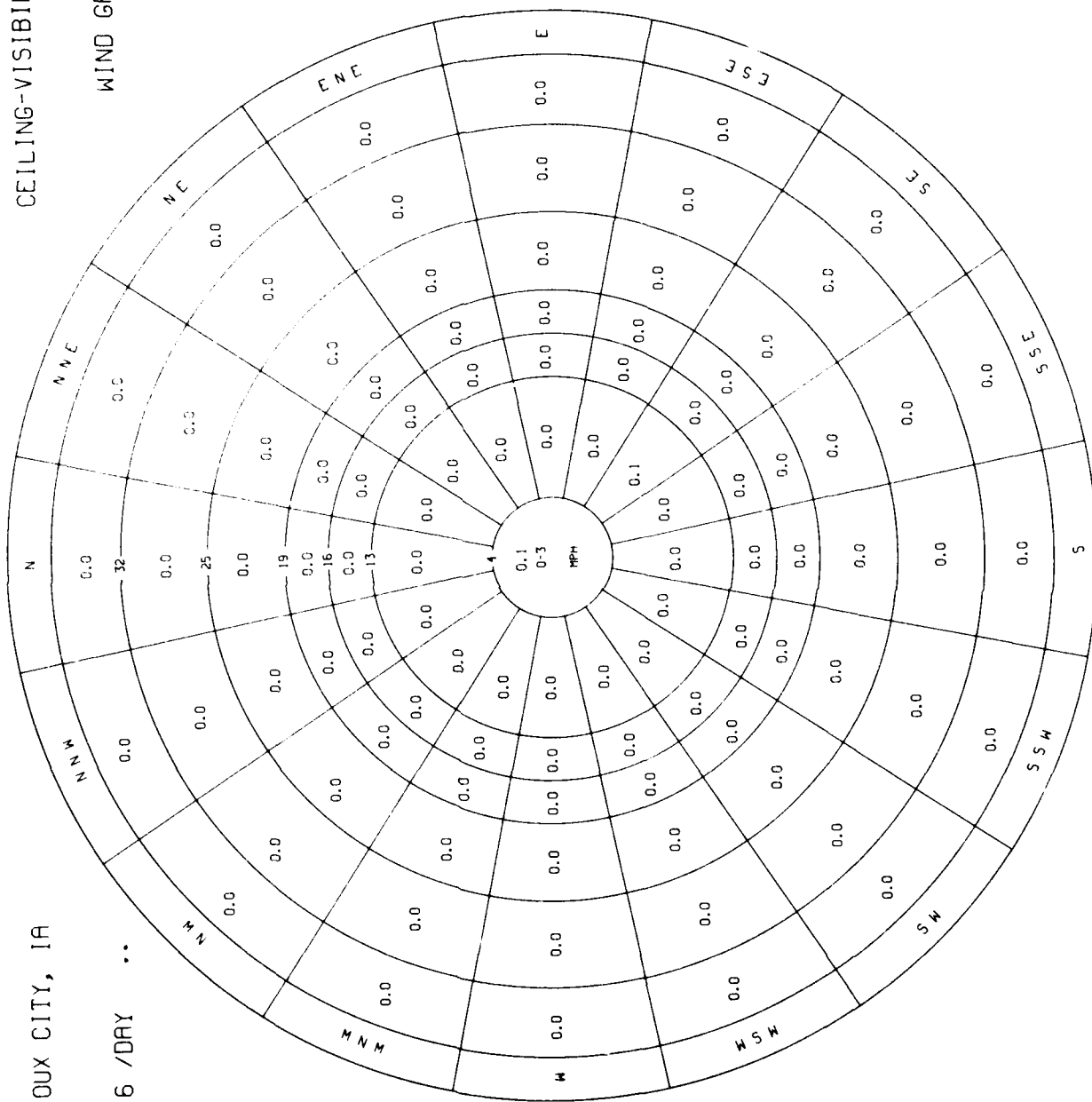
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.0	.0	1.0	.0	1.0	.0	1.5	.0	1.5	.0	.5	.0	7.3	19.0
NNE	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.0
NE	.0	.5	.0	1.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.0	8.0
ENE	.0	1.0	.0	1.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	3.4	10.2
E	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.9	8.8
ESE	.0	1.5	.0	9.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.7	8.8
SE	.0	.5	.0	8.3	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.1	11.7	9.2
SSE	.0	1.0	.0	9.8	.0	2.9	.0	1.5	.0	.0	.0	.0	.0	.0	.1	15.1	10.1
S	.0	.5	.0	3.4	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.8
SSW	.0	1.5	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.4	5.6
SW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.5
WSW	.0	.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.5
W	.0	.5	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.0
WNW	.0	.5	.0	5.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.9	12.5
NW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	8.8	13.4
NNW	.0	.5	.0	5.9	.0	.5	.0	.0	.0	.5	.0	1.0	.0	1.5	.0	9.8	14.4
CALM	.0	6.3													.0	6.3	
TOTAL	1	17.6	.3	56.6	.0	9.3	.0	6.3	.0	2.9	.0	3.4	.0	3.9	.5	100	10.1

CEILING-VISIBILITY

WIND GRAPH

SUX SIOUX CITY, IA

CLASS 6 /DAY ..



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14943

NO. OBS.: 186

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.6	.0	2.2	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	4.8	8.2
NNE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.6	10.7
NE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.5
ENE	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	3.2
E	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.8	7.1
ESE	.0	2.7	.0	8.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	6.5
SE	.0	2.2	.1	16.7	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.1	20.4	7.7
SSE	.0	3.8	.0	6.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	11.3	6.8
S	.0	.5	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.6
SSW	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.0
SW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	4.5
WSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.0
W	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.5
WNW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	16.0
NW	.0	2.7	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	2.2	10.8	14.3
NNW	.0	2.7	.0	2.7	.0	1.6	.0	.5	.0	1.1	.0	.5	.0	1.6	10.8	14.7	
CALM	.0	9.1													.0	9.1	
TOTAL	.1	33.3	.2	52.2	.0	4.3	.0	1.6	.0	3.2	.0	1.1	.0	4.3	.4	10.0	8.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SUX SIOUX CITY, IA

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14943

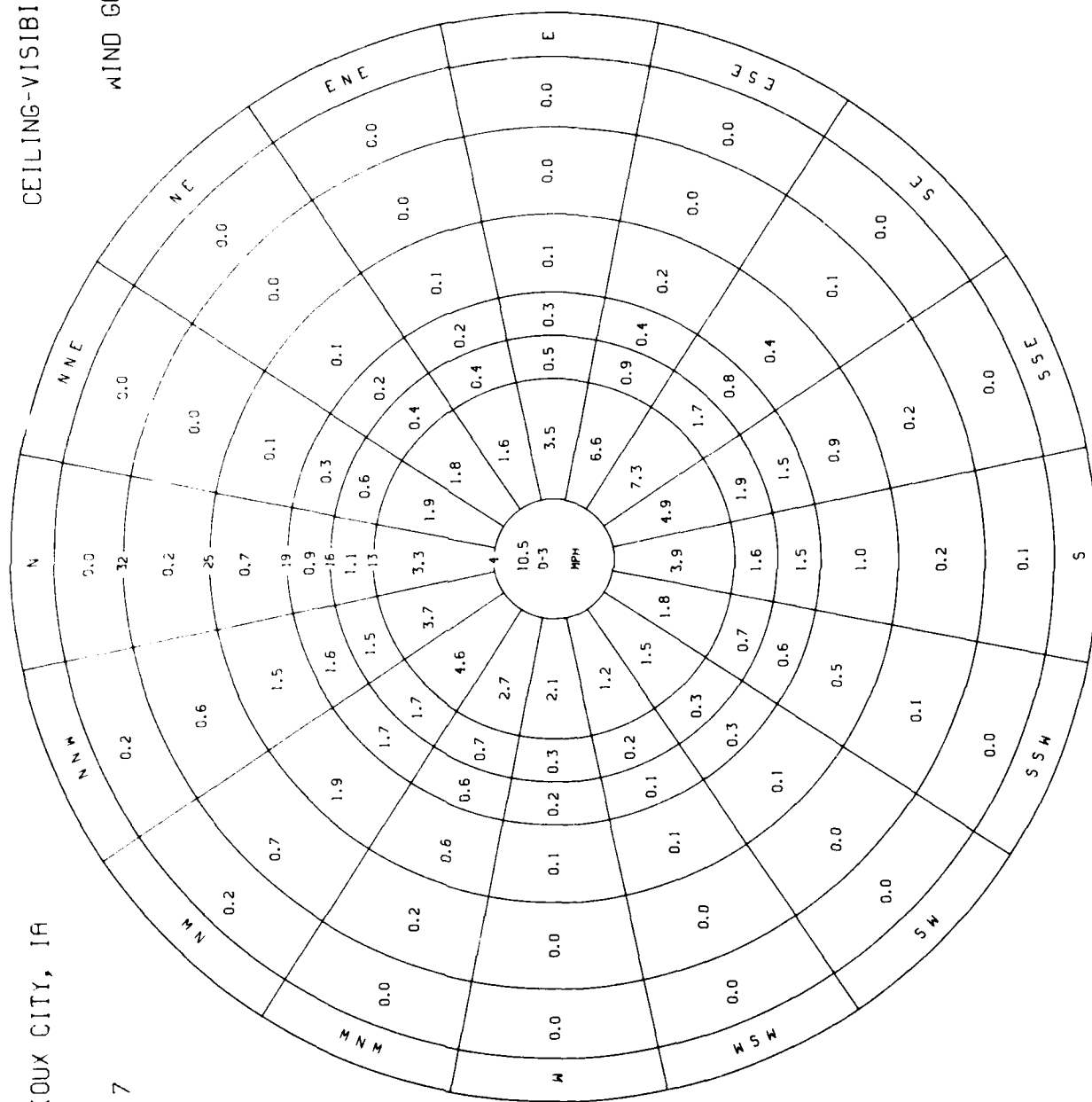
NO. OBS.: 333

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2.7	7.5
NNE	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.5
NE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	8.5
ENE	.0	.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	7.0
E	.0	1.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.5
ESE	.0	2.4	.1	14.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	17.7	7.1
SE	.0	2.4	.1	13.2	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.1	17.4	7.5
SSE	.0	2.1	.1	8.7	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.1	13.8	8.6
S	.0	1.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.6
SSW	.0	1.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	4.4
SW	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.5
WSW	.0	.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.8
W	.0	1.5	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	4.8	8.6
WNW	.0	1.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	4.2	7.4
NW	.0	3.3	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.1	7.5	7.2
NNW	.0	1.5	.0	3.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0	5.7	7.3
CALM	.1	11.7													.1	11.7	
TOTAL	.3	32.7	.5	59.2	.0	4.8	.0	1.2	.0	.0	.0	.0	.0	2.1	.8	100	6.4

WIND GRAPH

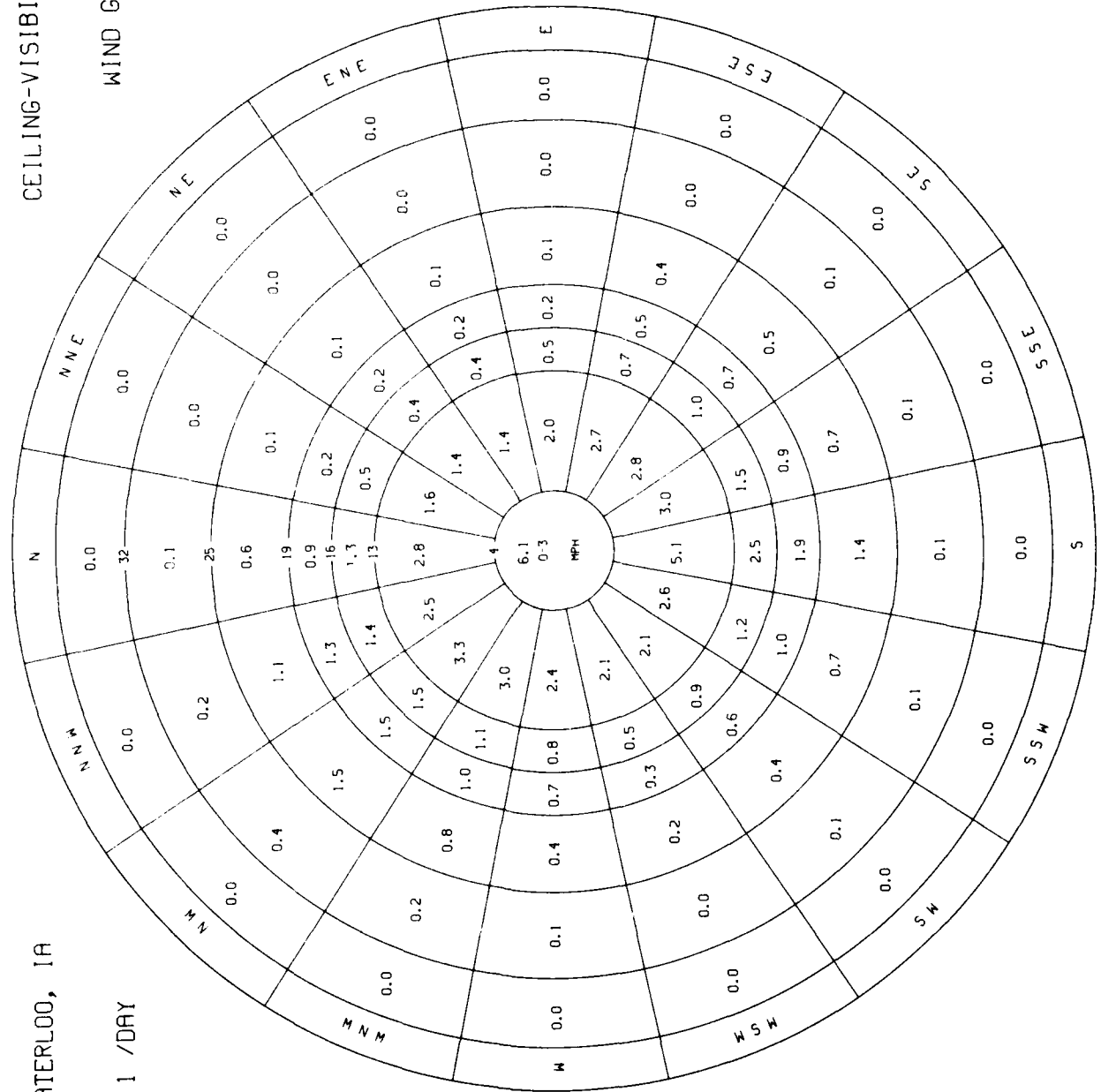
SUX SIOUX CITY, IA

CLASS 7



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: ALO WATERLOO, IA

CLASS 1 / DAY

NO. OBS.: 24410

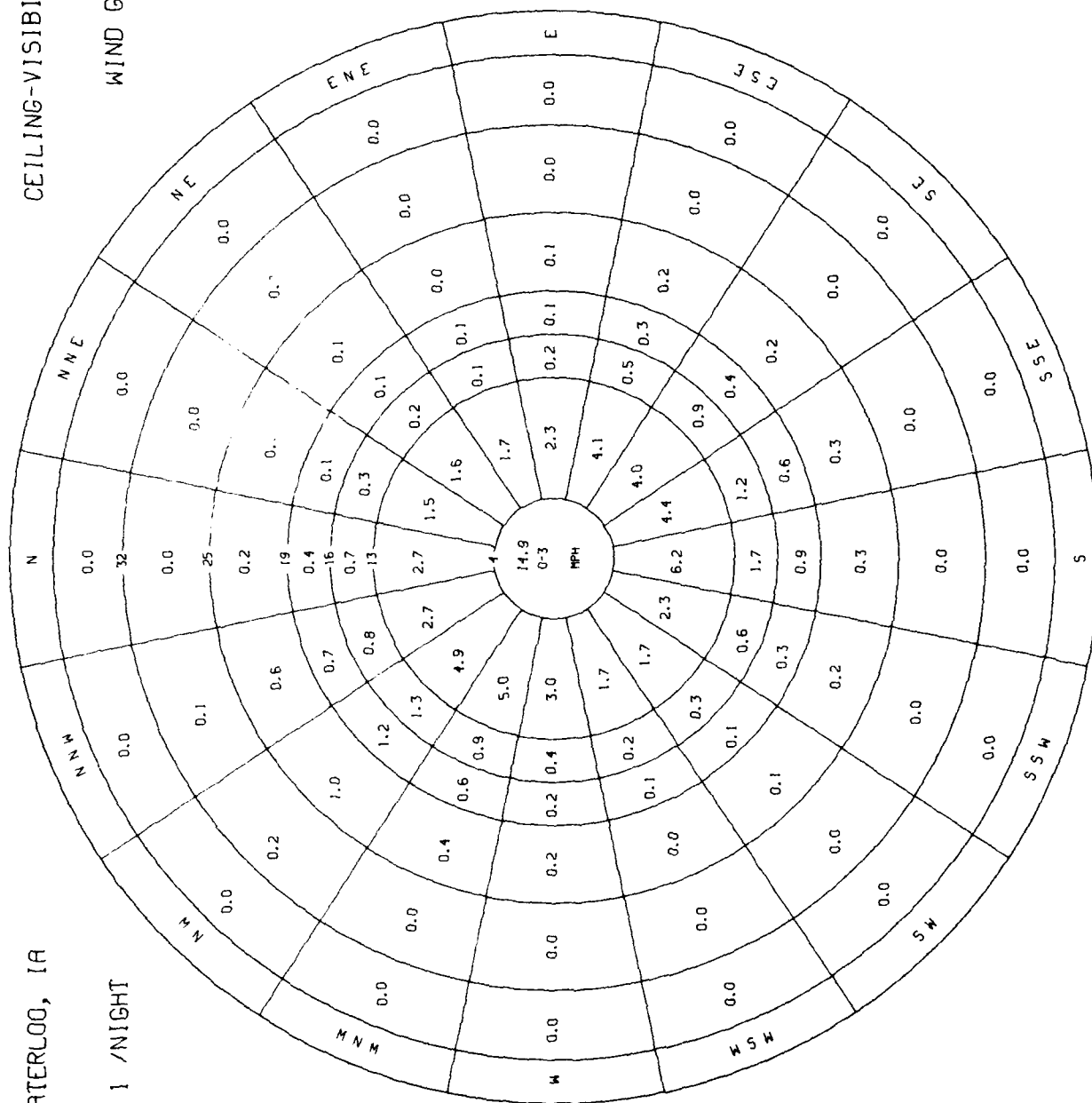
STATION NUMBER: 94910

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	2.8	3.3	1.3	1.5	.9	1.0	.6	.7	.1	.1	.0	.0	.0	7.0	12.3
NNE	.2	.2	1.6	1.9	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	3.0	10.2
NE	.2	.2	1.4	1.7	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	2.6	9.7
ENE	.2	.3	1.4	1.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	2.3	9.8
E	.3	.3	2.0	2.4	.5	.6	.2	.3	.1	.2	.0	.0	.0	.0	.0	3.2	9.9
ESE	.3	.3	2.7	3.1	.7	.8	.5	.5	.4	.5	.0	.0	.0	.0	.0	4.6	11.0
SE	.2	.3	2.8	3.2	1.0	1.2	.7	.8	.5	.6	.1	.1	.0	.0	.0	5.3	11.8
SSE	.2	.2	3.0	3.5	1.5	1.7	.9	1.1	.7	.8	.1	.1	.0	.0	.0	6.2	12.6
S	.3	.3	5.1	5.9	2.5	2.9	1.9	2.2	1.4	1.6	.1	.1	.0	.0	.0	11.3	13.0
SSW	.2	.2	2.6	3.0	1.2	1.4	1.0	1.1	.7	.8	.1	.1	.0	.0	.0	5.7	12.9
SW	.2	.2	2.1	2.5	.9	1.0	.6	.7	.4	.5	.1	.1	.0	.0	.0	4.2	12.1
WSW	.2	.2	2.1	2.5	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	.0	3.4	10.8
W	.2	.3	2.4	2.8	.8	.9	.7	.8	.4	.5	.1	.1	.0	.0	.0	4.6	12.0
WNW	.2	.3	3.0	3.5	1.1	1.3	1.0	1.1	.8	1.0	.2	.2	.0	.0	.0	6.4	12.8
NW	.3	.4	3.3	3.9	1.5	1.8	1.5	1.8	1.5	1.7	.4	.4	.0	.0	.0	8.6	13.9
NNW	.2	.2	2.5	2.9	1.4	1.7	1.3	1.5	1.1	1.3	.2	.2	.0	.0	.0	6.7	14.0
CALM	2.5	3.0														2.5	3.0
TOTAL	6.1	7.2	40.8	47.6	16.2	18.9	12.0	14.0	9.1	10.5	1.4	1.6	.1	.1	.1	85.7	11.9

ALO WATERLOO, IA

CLASS 1 / NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: ALO WATERLOO, IA

CLASS 1 / NIGHT

NO. OBS.: 20643

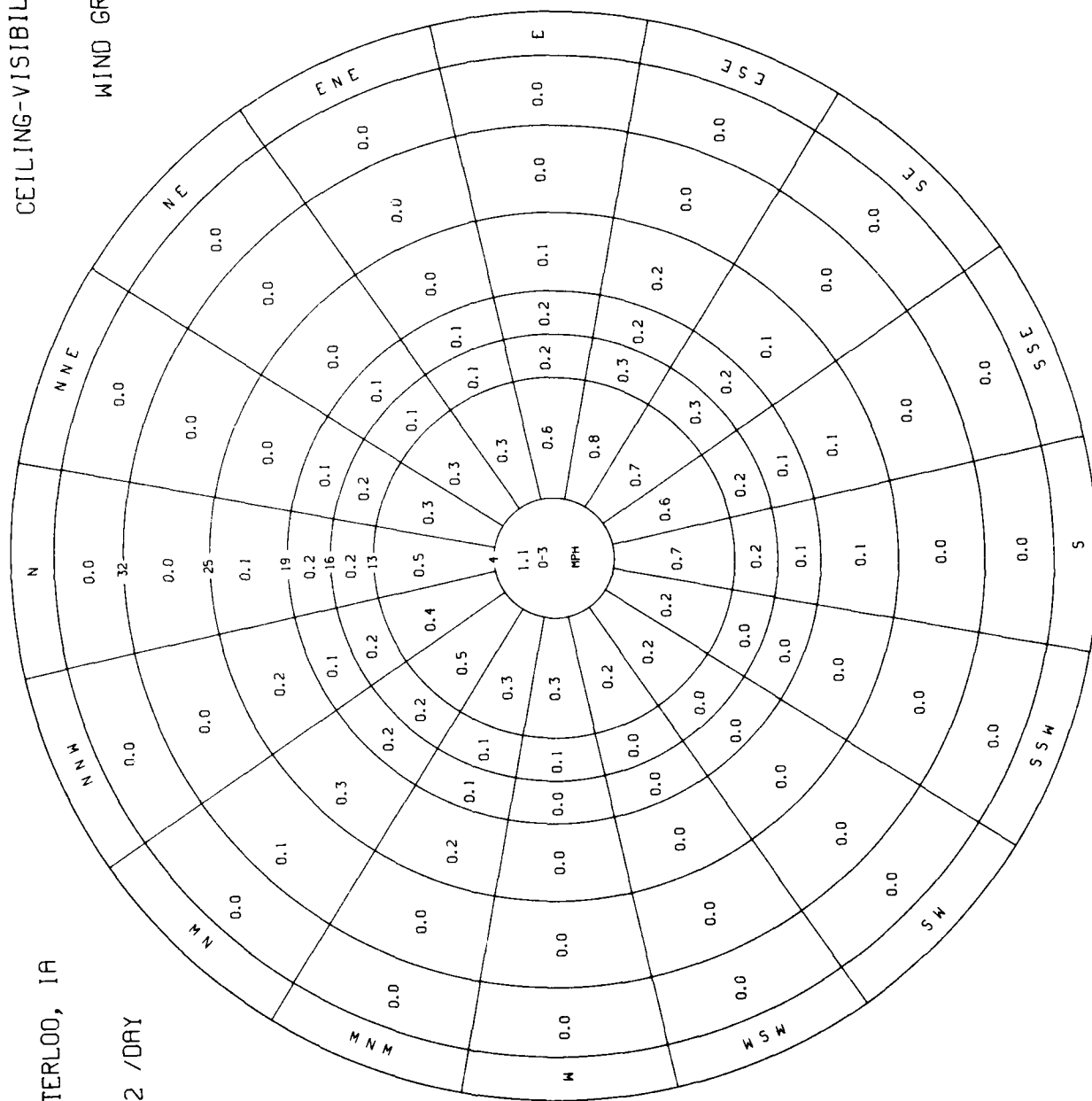
STATION NUMBER: 94910

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.5	2.7	3.1	.7	.8	.4	.5	.2	.3	.0	.0	.0	.0	4.5	5.3	10.2
NNE	.3	.3	1.5	1.7	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.2	2.5	8.5
NE	.5	.6	1.6	1.8	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.4	2.8	7.6
ENE	.6	.7	1.7	2.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	2.6	3.0	7.0
E	.6	.8	2.3	2.7	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.4	3.9	7.5
ESE	.8	.9	4.1	4.8	.5	.6	.3	.3	.2	.2	.0	.0	.0	.0	5.8	6.7	8.2
SE	.6	.7	4.0	4.6	.9	1.1	.4	.5	.2	.2	.0	.0	.0	.0	6.0	7.1	9.2
SSE	.3	.4	4.4	5.2	1.2	1.4	.6	.7	.3	.4	.0	.0	.0	.0	6.9	8.1	10.2
S	.5	.6	6.2	7.2	1.7	2.0	.9	1.0	.3	.4	.0	.0	.0	.0	9.7	11.3	10.3
SSW	.3	.4	2.3	2.7	.6	.7	.3	.3	.2	.2	.0	.0	.0	.0	3.7	4.3	10.0
SW	.3	.4	1.7	2.0	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.6	3.0	9.0
WSW	.3	.4	1.7	1.9	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.7	8.2
W	.5	.6	3.0	3.5	.4	.5	.2	.3	.2	.2	.0	.1	.0	.0	4.4	5.1	9.0
WNW	.7	.8	5.0	5.9	.9	1.0	.6	.8	.4	.5	.0	.0	.0	.0	7.7	9.0	9.6
NW	.8	.9	4.9	5.7	1.3	1.5	1.2	1.4	1.0	1.2	.2	.2	.0	.0	9.4	11.0	11.4
NNW	.5	.6	2.7	3.1	.8	.9	.7	.8	.6	.7	.1	.1	.0	.0	5.3	6.2	11.6
CALM	6.8	7.9													6.8	7.9	
TOTAL	14.9	17.4	49.8	58.1	10.4	12.1	6.1	7.1	3.9	4.6	.5	.6	.1	.1	85.7	100	8.9

ALO WATERLOO, IA

WIND GRAPH

CLASS 2 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: ALO WATERLOO, IA

CLASS 2 / DAY

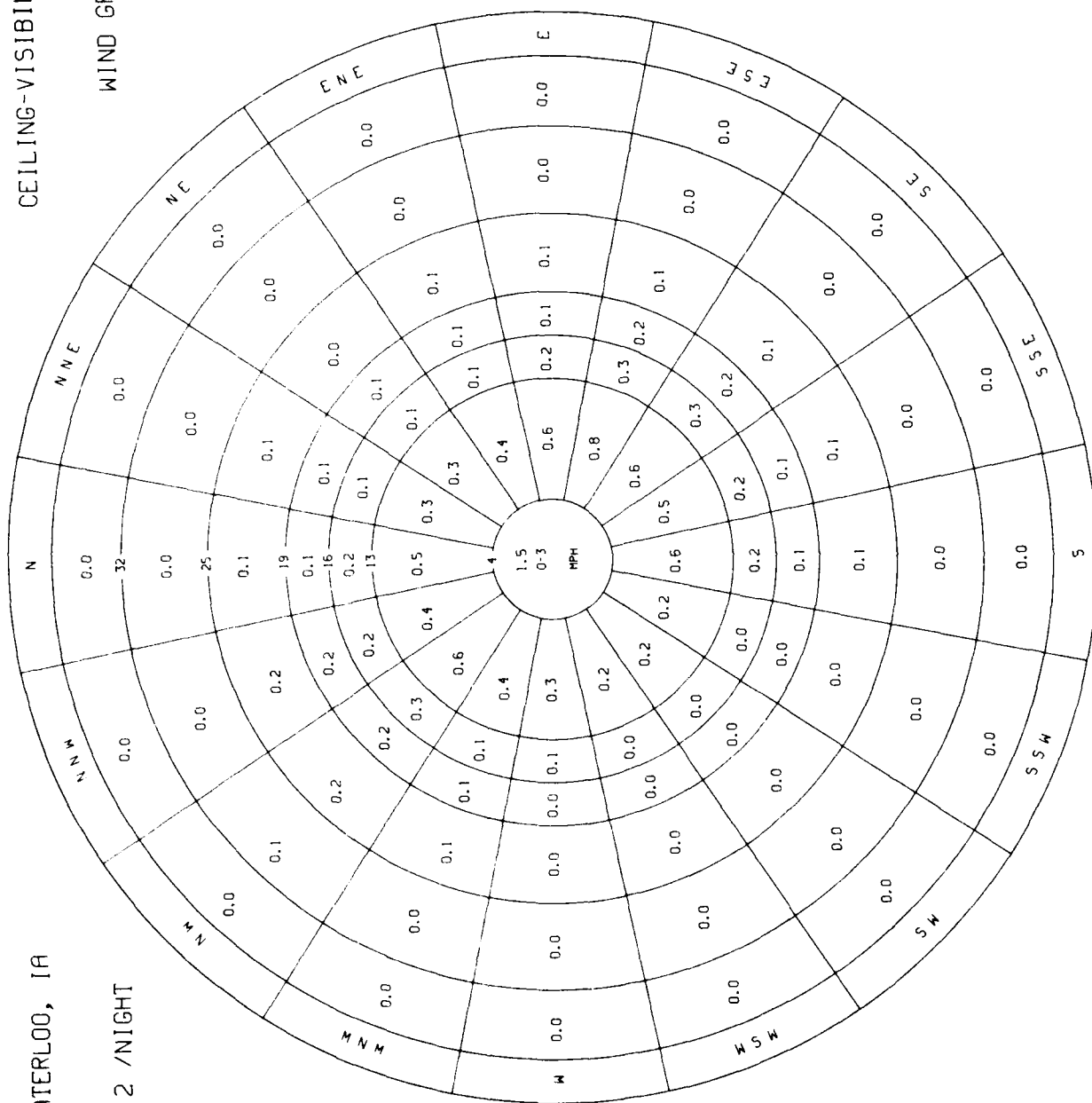
NO. OBS.: 4070

STATION NUMBER: 94910

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	3.4	.2	1.5	.2	1.1	.1	1.0	.0	.1	.0	.1	1.1	7.6	12.9
NNE	.0	.1	.3	2.3	.2	1.1	.1	.7	.0	.2	.0	.1	.0	.0	.7	4.6	12.3
NE	.0	.2	.3	2.3	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.6	4.3	11.7
ENE	.0	.2	.3	2.4	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.7	4.6	11.8
E	.1	.4	.6	4.3	.2	1.7	.2	1.3	.1	.8	.0	.1	.0	.0	1.2	8.7	12.1
ESE	.1	.5	.8	5.5	.3	2.1	.2	1.4	.2	1.3	.0	.1	.0	.0	1.6	10.9	12.1
SE	.1	.4	.7	4.6	.3	1.9	.2	1.4	.1	.6	.0	.1	.0	.0	1.3	9.1	11.7
SSE	.0	.2	.6	4.0	.2	1.5	.1	.6	.1	.5	.0	.0	.0	.0	1.0	6.9	11.5
S	.0	.3	.7	4.6	.2	1.7	.1	.7	.1	.4	.0	.0	.0	.0	1.1	7.7	11.0
SSW	.0	.2	.2	1.6	.0	.3	.0	.3	.0	.1	.0	.0	.0	.0	.4	2.6	10.4
SW	.0	.2	.2	1.3	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.1	10.2
WSW	.0	.1	.2	1.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.0	8.9
W	.0	.2	.3	2.2	.1	.6	.0	.2	.0	.3	.0	.0	.0	.0	.5	3.5	10.6
WNW	.0	.1	.3	2.2	.1	.6	.1	.7	.2	1.1	.0	.3	.0	.0	.7	5.2	14.5
NW	.1	.4	.5	3.6	.2	1.7	.2	1.4	.3	1.8	.1	.7	.0	.0	1.4	9.7	14.5
NNW	.0	.2	.4	2.5	.2	1.7	.1	1.0	.2	1.2	.0	.3	.0	.2	1.0	7.1	14.5
CALM	.5	3.5													.5	3.5	
TOTAL	1.1	7.8	6.9	48.4	2.7	18.9	1.7	12.2	1.5	10.2	.3	2.0	.1	.5	14.3	100	11.9

CEILING-VISIBILITY

WIND GRAPH



ALO WATERLOO, IA

CLASS 2 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

CLASS 2 / NIGHT

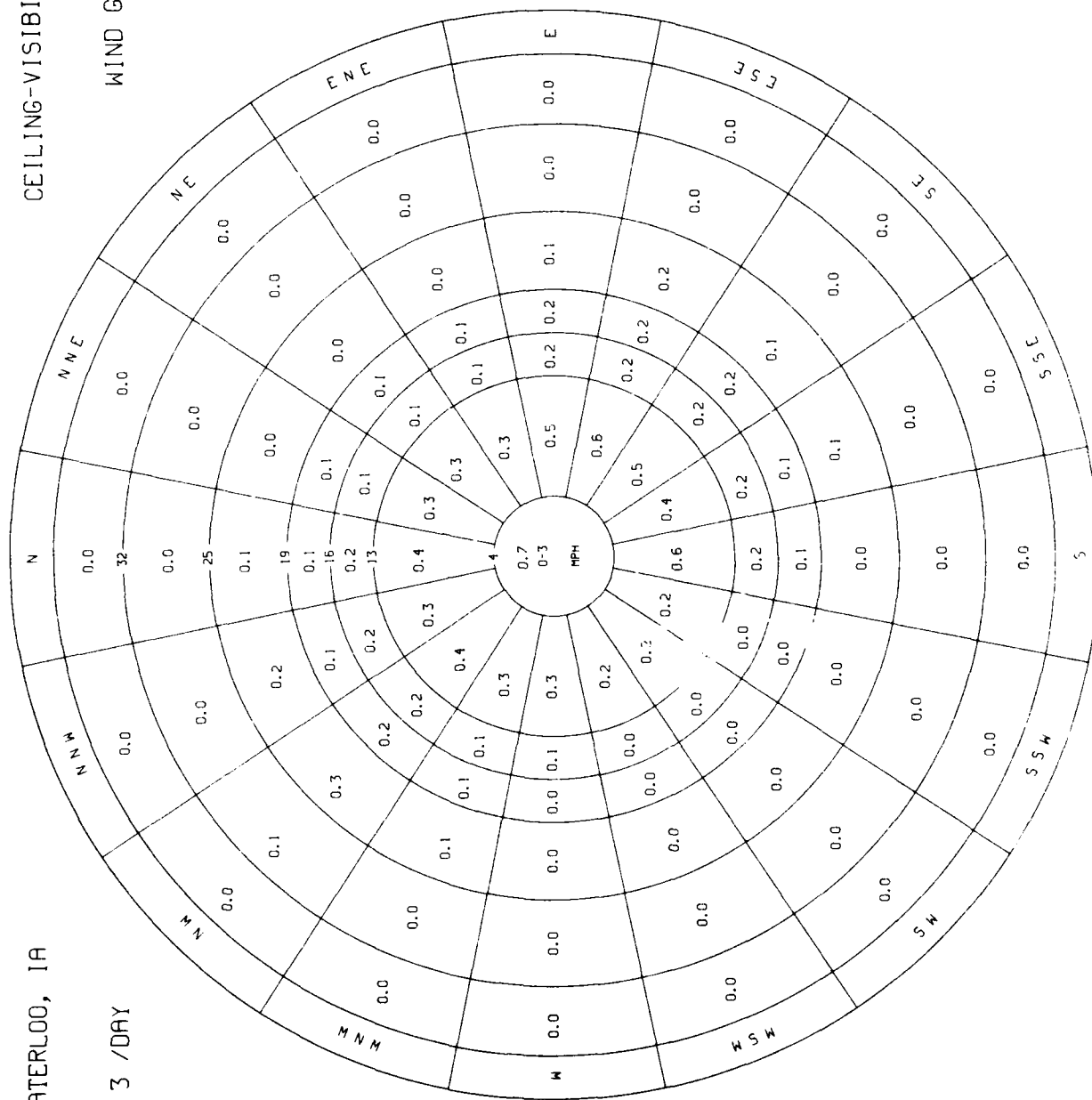
STATION NUMBER: 94910

NO. OBS.: 3450

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.4	.5	3.6	.2	1.6	.1	.8	.1	1.0	.0	.3	.0	.0	1.1	7.8	12.9
NNE	.1	.4	.3	2.1	.1	.6	.1	.6	.1	.4	.0	.1	.0	.0	.6	4.3	11.4
NE	.1	.5	.3	2.3	.1	.7	.1	.4	.0	.3	.0	.1	.0	.0	.6	4.3	10.9
ENE	.0	.3	.4	2.5	.1	.6	.1	.6	.1	.5	.0	.1	.0	.0	.7	4.6	11.4
E	.1	.8	.6	4.4	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.1	7.8	10.7
ESE	.1	.6	.8	5.8	.3	2.1	.2	1.7	.1	1.0	.0	.1	.0	.1	1.6	11.2	11.7
SE	.1	.6	.6	4.4	.3	2.1	.2	1.1	.1	.9	.0	.1	.0	.0	1.3	9.2	12.1
SSE	.0	.2	.5	3.3	.2	1.6	.1	.9	.1	.4	.0	.1	.0	.0	.9	6.4	11.8
S	.0	.3	.6	4.1	.2	1.5	.1	.9	.1	.4	.0	.0	.0	.0	1.0	7.3	11.2
SSW	.0	.1	.2	1.4	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.0	9.7
SW	.0	.2	.2	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.2	1.7	9.9
WSW	.0	.3	.2	1.1	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.3	1.9	9.8
W	.0	.3	.3	2.2	.1	.5	.0	.2	.0	.3	.0	.1	.0	.1	.5	3.6	11.0
WNW	.0	.2	.4	2.9	.1	.9	.1	.8	.1	.9	.0	.1	.0	.1	.8	5.9	12.8
NW	.1	.4	.6	3.9	.3	2.0	.2	1.3	.2	1.5	.1	.8	.0	.1	1.4	10.0	14.3
NNW	.0	.3	.4	2.6	.2	1.7	.2	1.2	.2	1.4	.0	.3	.0	.1	1.1	7.7	14.3
CALM	.6	4.5													.6	4.5	
TOTAL	1.5	10.3	6.8	47.7	2.5	17.7	1.7	11.5	1.4	9.8	.3	2.4	.1	.5	14.3	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

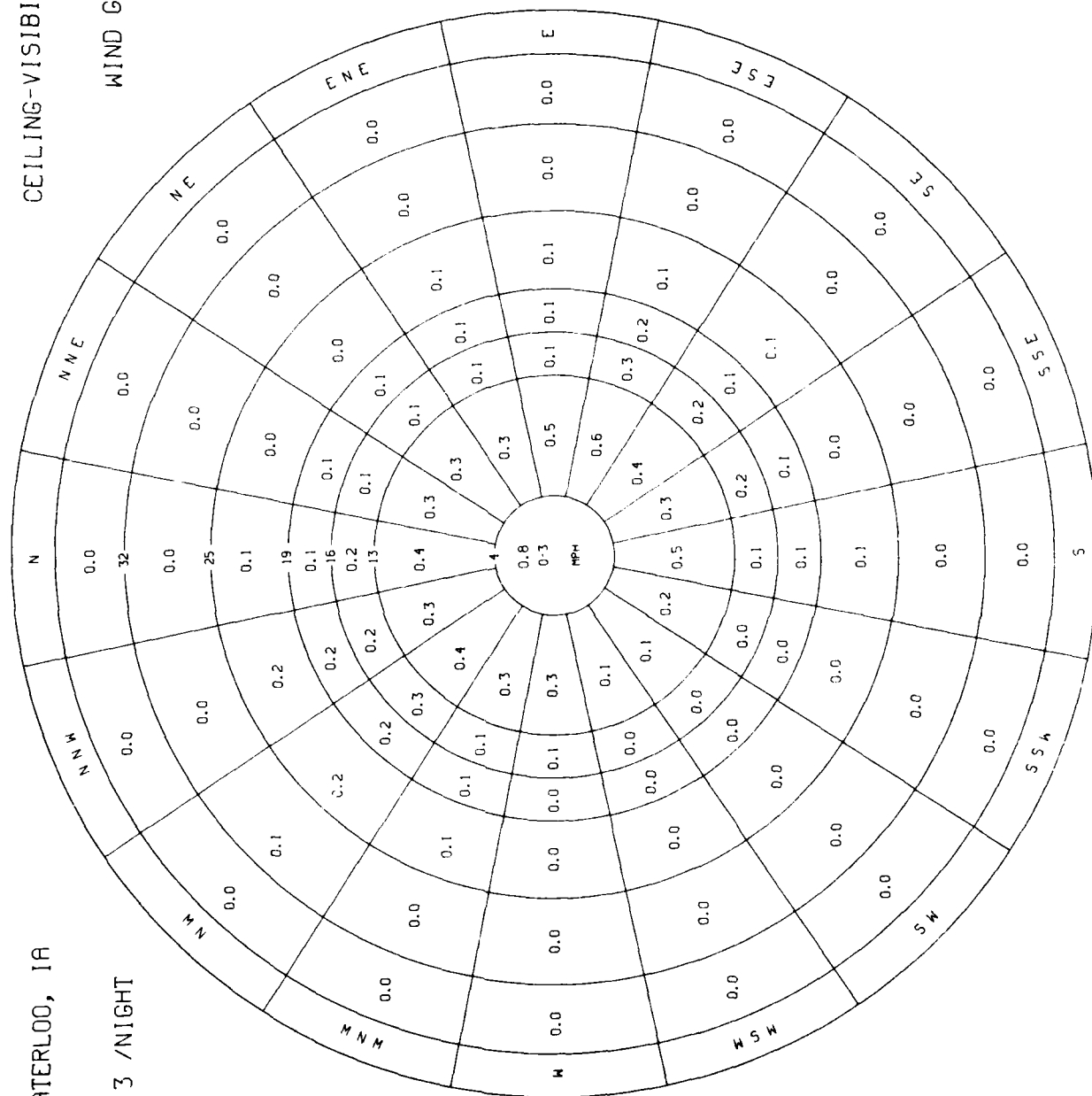
CLASS 3 / DAY

STATION NUMBER: 94910

NO. OBS.: 3409

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.4	3.5	.2	1.7	.1	1.1	.1	1.1	.0	.1	.0	.1	.9 7.8
NNE	.0	.1	.3	2.3	.1	1.2	.1	.8	.0	.2	.0	.0	.0	.0	.6 4.6
NE	.0	.3	.2	2.2	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.5 4.3
ENE	.0	.2	.3	2.3	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.6 4.8
E	.0	.3	.5	4.3	.2	1.9	.2	1.5	.1	.9	.0	.1	.0	.1	1.1 9.0
ESE	.0	.4	.6	5.1	.2	1.9	.2	1.3	.2	1.5	.0	.1	.0	.0	1.2 10.4
SE	.0	.4	.5	4.1	.2	1.9	.2	1.3	.1	.6	.0	.1	.0	.0	1.0 8.6
SSE	.0	.1	.4	3.6	.2	1.6	.1	.6	.1	.5	.0	.0	.0	.0	.8 6.5
S	.0	.2	.6	4.7	.2	1.7	.1	.8	.0	.4	.0	.0	.0	.0	.9 7.7
SSW	.0	.1	.2	1.6	.0	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3 2.6
SW	.0	.2	.2	1.3	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3 2.2
WSW	.0	.1	.2	1.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.1
W	.0	.2	.3	2.2	.1	.6	.0	.2	.0	.3	.0	.0	.0	.0	.4 3.6
WNW	.0	.2	.3	2.2	.1	.7	.1	.7	.1	1.2	.0	.3	.0	.0	.6 5.4
NW	.0	.4	.4	3.7	.2	1.8	.2	1.6	.3	2.1	.1	.7	.0	.0	1.2 10.4
NNW	.0	.1	.3	2.5	.2	1.9	.1	1.1	.2	1.3	.0	.3	.0	.1	.9 7.4
CALM	.3	2.6													.3 2.6
TOTAL	.7	6.0	5.7	47.3	2.4	20.0	1.6	13.0	1.3	11.2	.2	2.0	.1	.4	12.0 100
															12.3

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:ALO WATERLOO, IA

PERIOD: 1961-1978

CLASS 3 / NIGHT

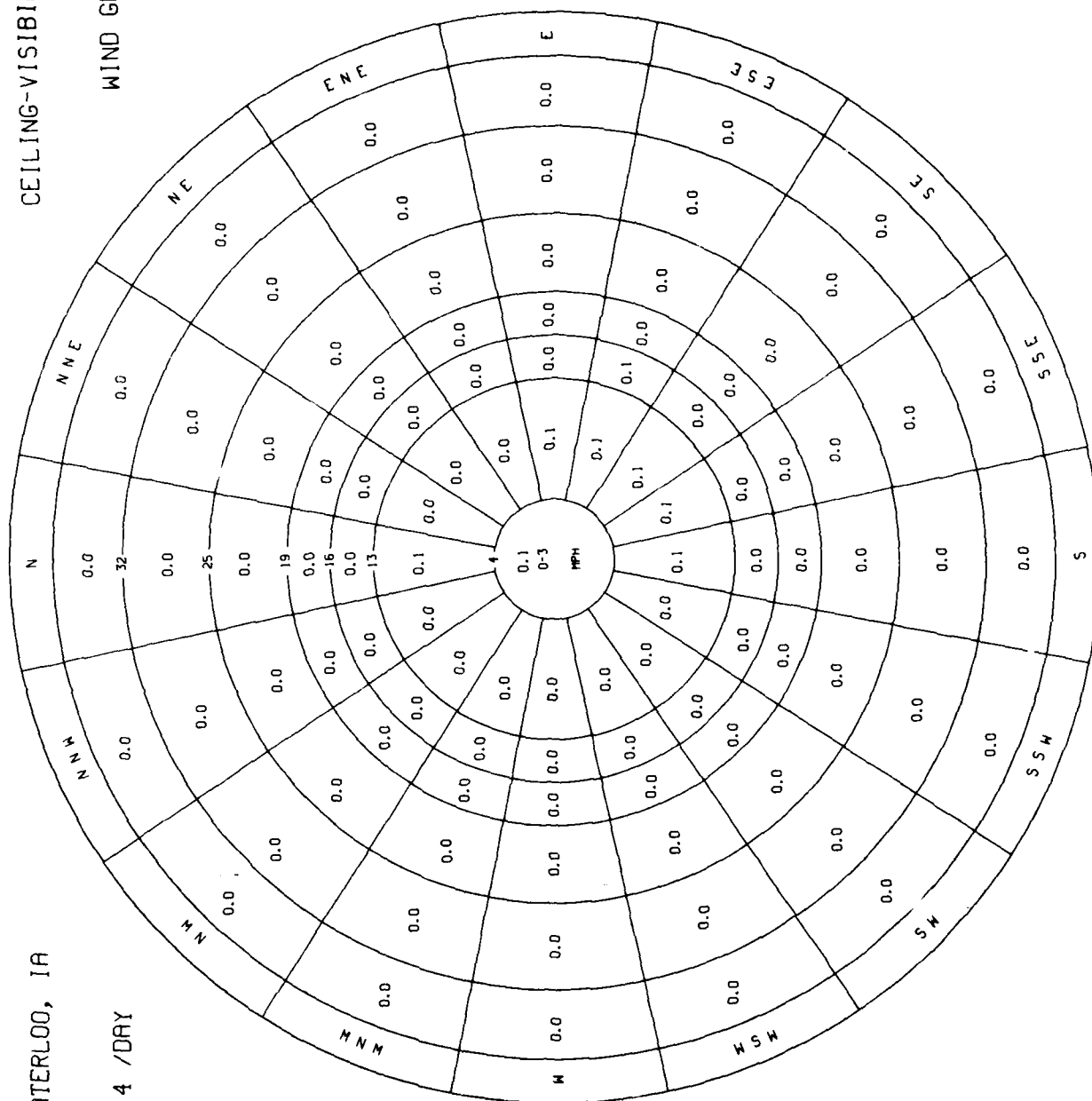
STATION NUMBER: 94910

NO. OBS.: 2713

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.3	.4	3.4	.2	1.8	.1	1.0	.1	1.2	.0	.2	.0	.0	.9	8.0
NNE	.0	.2	.3	2.5	.1	.6	.1	.8	.0	.4	.0	.0	.0	.0	.5	4.5
NE	.0	.3	.3	2.3	.1	.7	.1	.5	.0	.4	.0	.0	.0	.0	.5	4.3
ENE	.0	.2	.3	2.5	.1	.8	.1	.6	.1	.6	.0	.1	.0	.0	.5	4.8
E	.1	.6	.5	4.6	.1	1.2	.1	.9	.1	.7	.0	.1	.0	.0	.9	8.1
ESE	.1	.5	.6	5.4	.3	2.3	.2	1.8	.1	1.1	.0	.1	.0	.1	1.3	11.2
SE	.0	.4	.4	3.5	.2	2.0	.1	1.1	.1	1.0	.0	.1	.0	.0	.9	8.1
SSE	.0	.1	.3	2.8	.2	1.5	.1	1.0	.0	.4	.0	.1	.0	.0	.7	5.9
S	.0	.2	.5	4.0	.1	1.3	.1	.9	.1	.5	.0	.0	.0	.0	.8	7.0
SSW	.0	.0	.2	1.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.2	1.9
SW	.0	.1	.1	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.2	1.7
WSW	.0	.3	.1	1.1	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.2	.9
W	.0	.3	.3	2.3	.1	.5	.0	.3	.0	.3	.0	.1	.0	.1	.4	3.8
WNW	.0	.2	.3	2.9	.1	1.1	.1	.9	.1	1.1	.0	.1	.0	.0	.7	6.3
NW	.0	.3	.4	3.9	.3	2.4	.2	1.6	.2	1.9	.1	.8	.0	.1	1.2	11.0
NNW	.0	.1	.3	2.6	.2	1.8	.2	1.5	.2	1.7	.0	.4	.0	.0	.9	8.2
CALM	.3	3.1													.3	3.1
TOTAL	.8	7.2	5.2	46.5	2.1	18.9	1.5	13.2	1.3	11.6	.3	2.2	.0	.4	11.3	100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

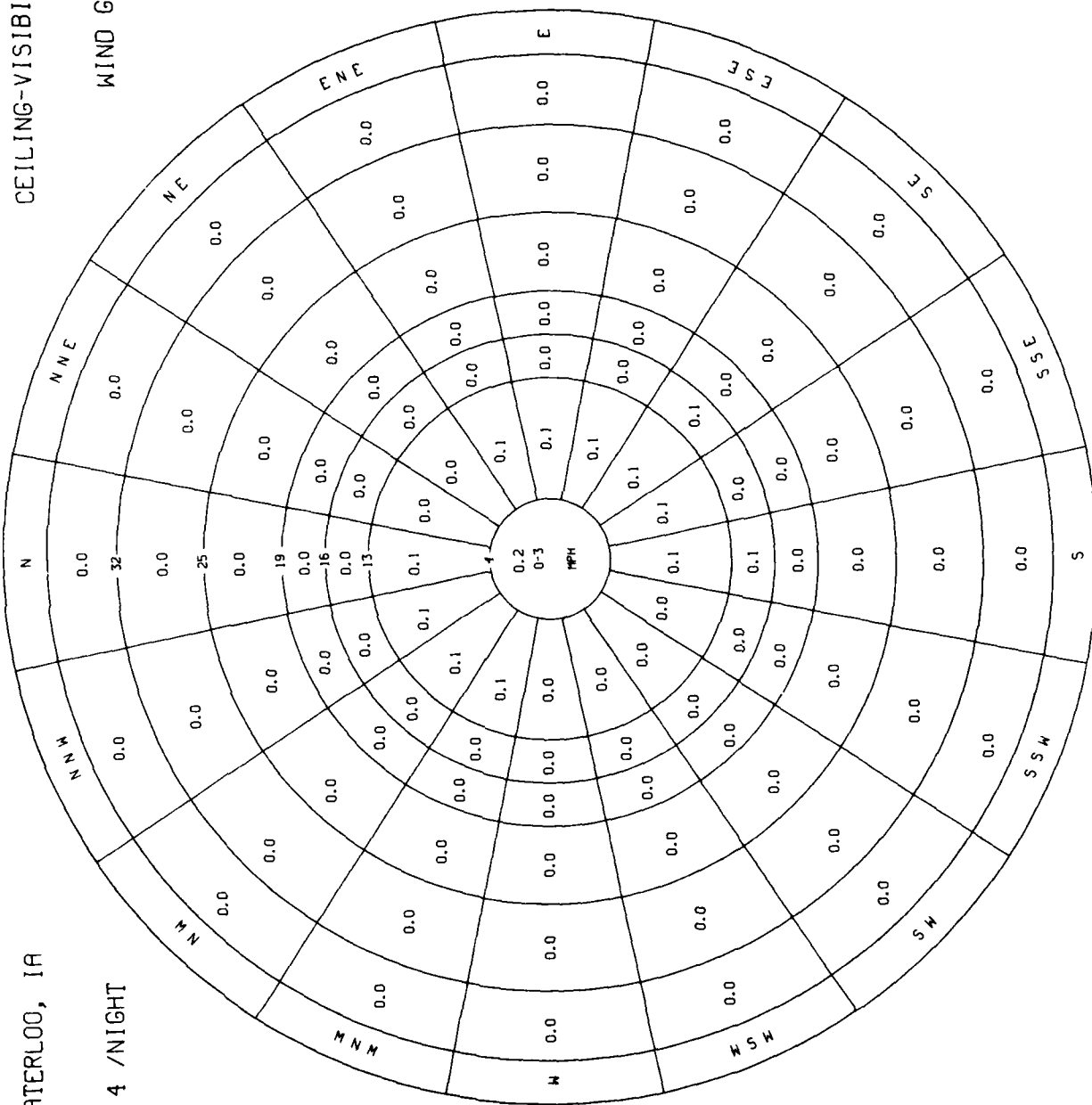
CLASS 4 / DAY

STATION NUMBER: 94910

NO. OBS.: 442

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.9	.1	3.4	.0	.9	.0	.7	.0	.7	.0	.2	.0	.2	.1	7.0	11.7
NNE	.0	.0	.0	2.3	.0	1.1	.0	.0	.0	.7	.0	.2	.0	.0	.1	4.3	12.8
NE	.0	.0	.0	2.7	.0	.7	.0	.9	.0	.5	.0	.2	.0	.0	.1	5.0	13.1
ENE	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.6	8.6
E	.0	.0	.1	3.8	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.4	10.5
ESE	.0	.7	.1	7.2	.1	3.8	.0	2.3	.0	.7	.0	.0	.0	.2	.2	14.9	12.0
SE	.0	.9	.1	6.1	.0	2.9	.0	1.6	.0	.7	.0	.0	.0	.0	.2	12.2	11.4
SSE	.0	.5	.1	5.7	.0	1.6	.0	.9	.0	.2	.0	.0	.0	.0	.1	8.8	11.4
S	.0	.7	.1	4.8	.0	2.0	.0	.9	.0	.5	.0	.0	.0	.0	.1	8.8	10.3
SSW	.0	.2	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.0
SW	.0	.2	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.9
WSW	.0	.5	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.3
W	.0	.0	.0	1.8	.0	.7	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.7	10.8
WNW	.0	.0	.0	2.3	.0	.2	.0	.5	.0	.9	.0	.5	.0	.0	.1	4.3	13.9
NW	.0	.9	.0	2.9	.0	1.4	.0	.7	.0	.2	.0	.5	.0	.0	.1	6.6	11.5
NNW	.0	.2	.0	2.0	.0	1.1	.0	1.1	.0	.9	.0	.2	.0	.2	.1	5.9	14.7
CALM	.1	3.8													.1	3.8	
TOTAL	.1	9.5	.8	53.6	.3	18.3	.2	10.0	.1	5.9	.0	2.0	.0	.7	1.6	100	11.0

CEILING-VISIBILITY WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: ALO WATERLOO, IA

CLASS 4 / NIGHT

NO. OBS.: 467

STATION NUMBER: 94910

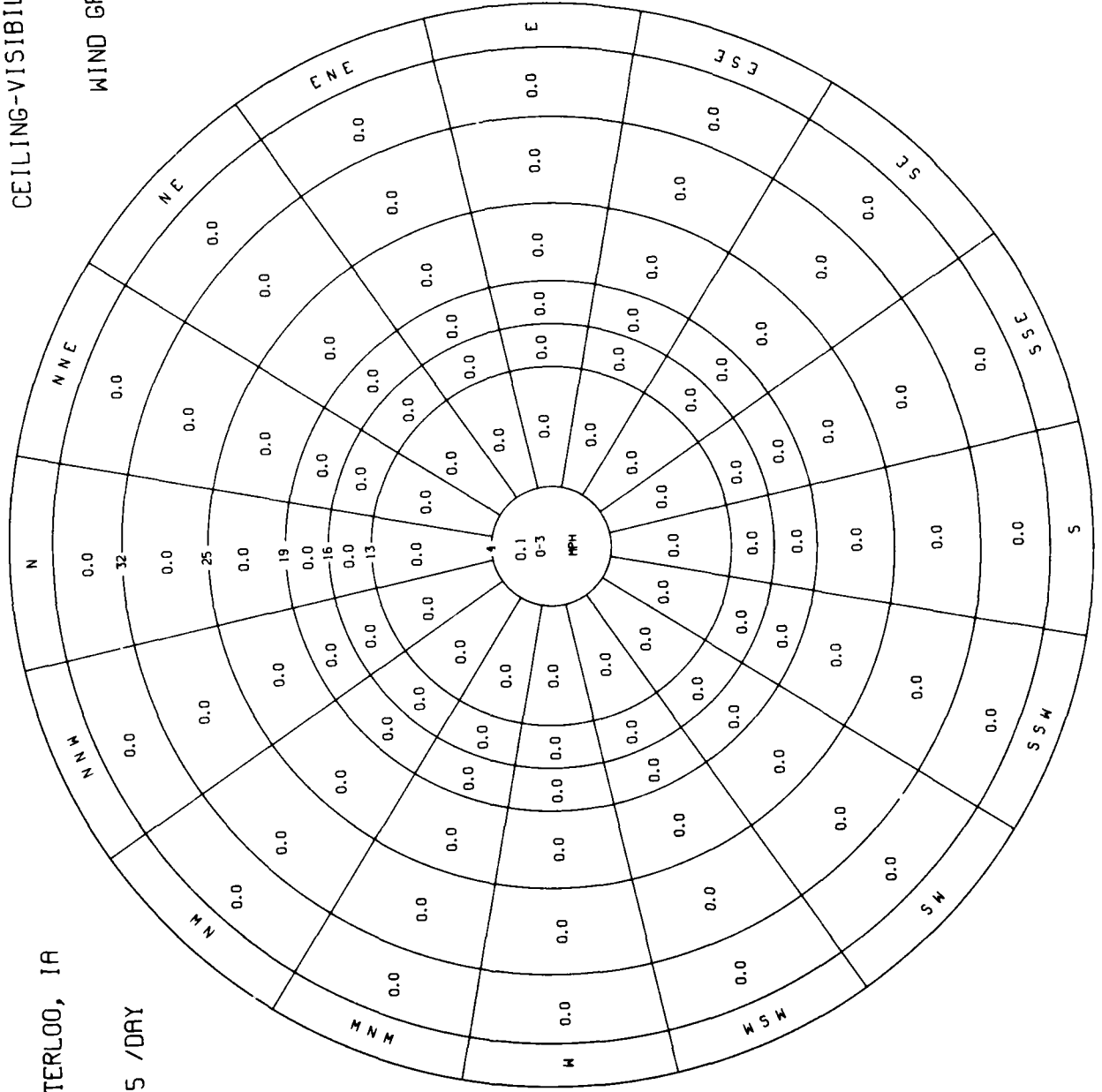
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.1	4.5	.0	1.3	.0	.4	.0	.2	.0	1.1	.0	.0	.1	7.7	12.3
NNE	.0	1.3	.0	1.3	.0	.4	.0	.2	.0	.6	.0	.2	.0	.0	.1	4.1	10.4
NE	.0	.9	.0	1.9	.0	.9	.0	.2	.0	.2	.0	.2	.0	.0	.1	4.3	9.8
ENE	.0	.4	.1	2.8	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.1	4.3	9.8
E	.0	1.5	.1	2.8	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.2	9.0
ESE	.0	.2	.1	7.3	.0	1.5	.0	1.5	.0	.6	.0	.2	.0	.0	.2	11.3	11.1
SE	.0	.4	.1	6.6	.1	3.6	.0	1.1	.0	.6	.0	.2	.0	.0	.2	12.6	11.7
SSE	.0	.4	.1	5.4	.0	2.4	.0	.9	.0	.2	.0	.0	.0	.0	.2	9.2	10.9
S	.0	.6	.1	5.4	.1	2.8	.0	1.1	.0	.0	.0	.0	.0	.0	.2	9.9	10.1
SSW	.0	.2	.0	1.7	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.0	9.9
SW	.0	.2	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	9.0
WSW	.0	.2	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.3
W	.0	.2	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.1	2.8	9.9
WNW	.0	.4	.1	2.8	.0	.2	.0	.2	.0	.2	.0	.0	.0	.6	.1	4.5	13.1
NW	.0	.0	.1	3.4	.0	.9	.0	.4	.0	.0	.0	1.1	.0	.2	.1	6.0	14.2
NNW	.0	.2	.1	2.8	.0	1.7	.0	.0	.0	.2	.0	.4	.0	.0	.1	5.4	11.9
CALM	.1	5.4													.1	5.4	
TOTAL	.2	12.8	1.0	52.7	.4	18.8	.1	7.3	.1	3.9	.1	3.6	.0	.9	1.9	100	10.4

CEILING-VISIBILITY

WIND GRAPH

ALO WATERLOO, IA

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

CLASS 5 / DAY

STATION NUMBER: 94910

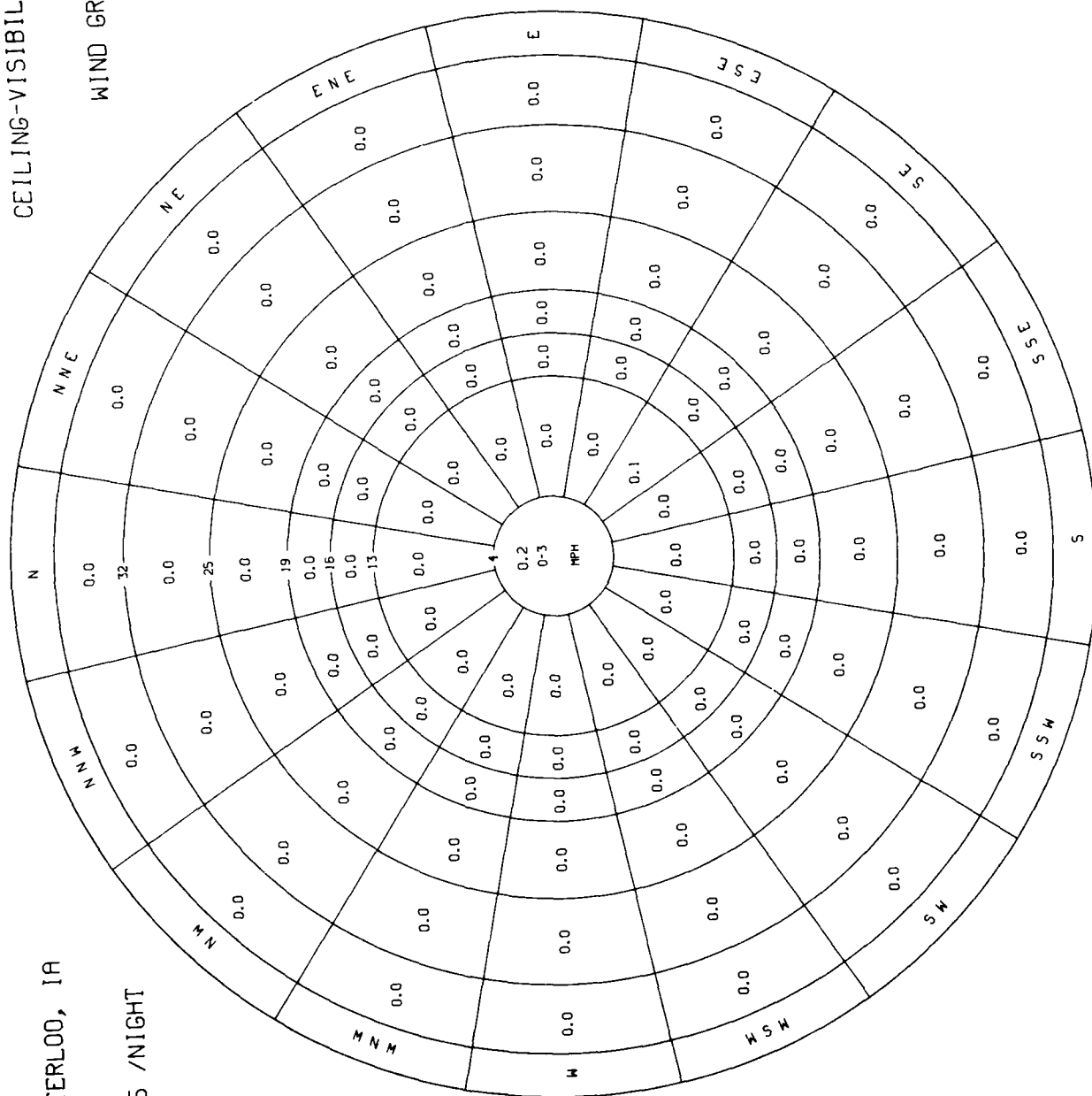
NO. OBS.: 101

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	1.0	.0	.0	.0	2.0	.0	.0	.0	1.0	.0	.0	.0	4.0	16.2
NNE	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	6.9	13.9
NE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	4.0	13.7
ENE	.0	.0	.0	.0	.0	.0	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	3.0	18.3
E	.0	4.0	.0	6.9	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	12.9	8.5
ESE	.0	.0	.0	8.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	8.1
SE	.0	.0	.0	7.9	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	11.9	11.7
SSE	.0	1.0	.0	8.9	.0	1.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	12.9	10.5
S	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	8.4
SSW	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	2.0	12.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.3
WNW	.0	.0	.0	4.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	6.9	16.0
NW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.0	9.5
NNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0	23.5
CALM	.0	11.9													.0	11.9	
TOTAL	1	18.8	2	55.4	.0	4.0	.0	7.9	.0	6.9	.0	5.0	.0	2.0	.4	100	10.1

WIND GRAPH

ALLO WATERLOO, IA

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

CLASS 5 / NIGHT

STATION NUMBER: 94910

NO. OBS.: 126

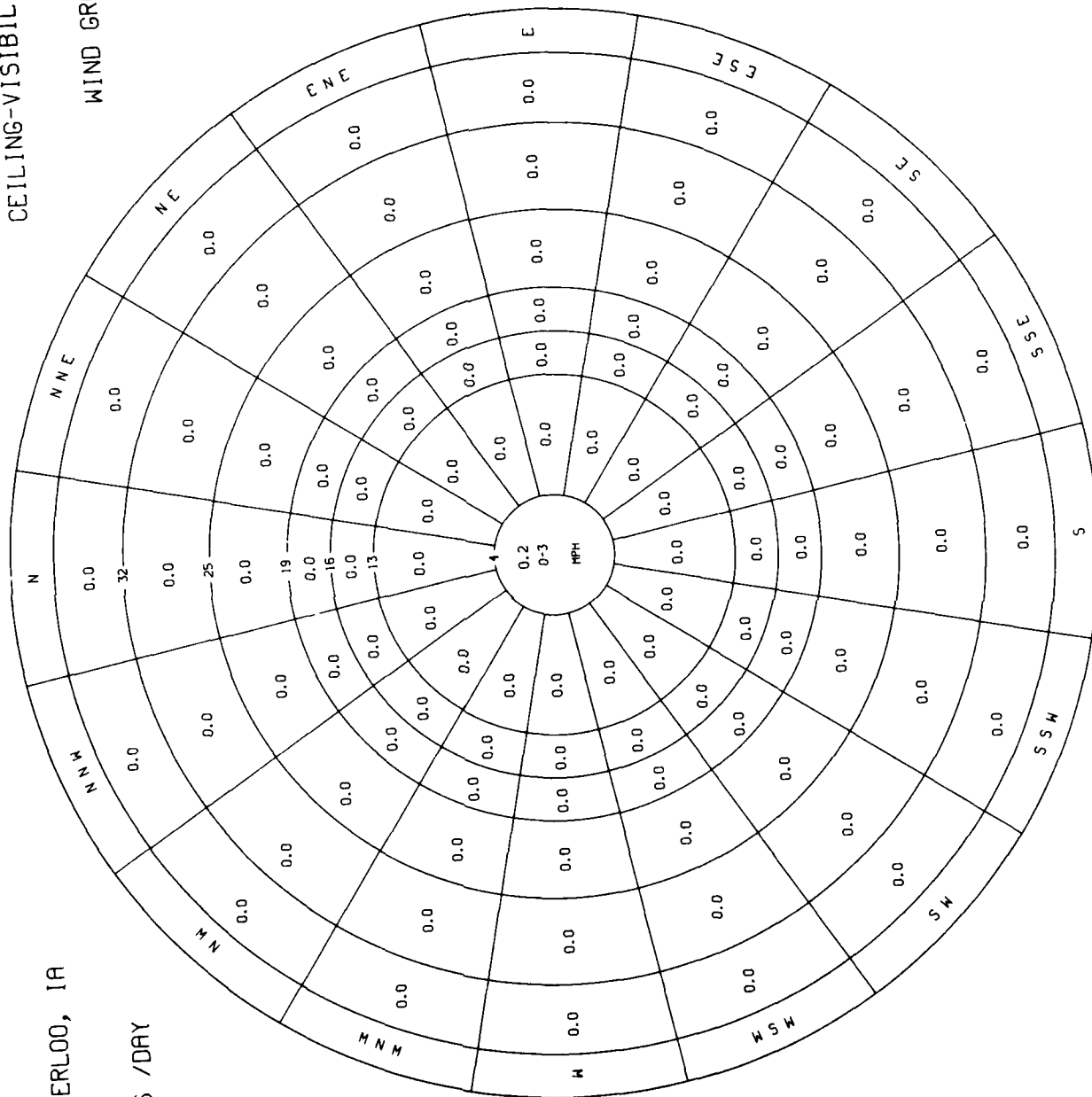
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	1.6	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0 4.0
NNE	.0	.8	.0	.8	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0 2.4
NE	.0	2.4	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.3
ENE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
E	.0	.8	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0 4.0
ESE	.0	.0	.0	9.5	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.1 11.1
SE	.0	2.4	.1	10.3	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.1 15.9
SSE	.0	.0	.0	4.0	.0	3.2	.0	.0	.0	.8	.0	.0	.0	.0	.0 7.9
S	.0	.8	.0	2.4	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
SSW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 .8
WSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
W	.0	1.6	.0	3.2	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 5.6
WNW	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NW	.0	1.6	.0	4.8	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0 7.9
NNW	.0	2.4	.0	3.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 6.3
CALM	.1	16.7													.1 16.7
TOTAL	.2	31.0	.3	50.8	.0	6.3	.0	4.8	.0	5.6	.0	1.6	.0	.0	.5 100
															7.8

CEILING-VISIBILITY

WIND GRAPH

ALO WATERLOO, IA

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: ALO WATERLOO, IA

CLASS 6 / DAY

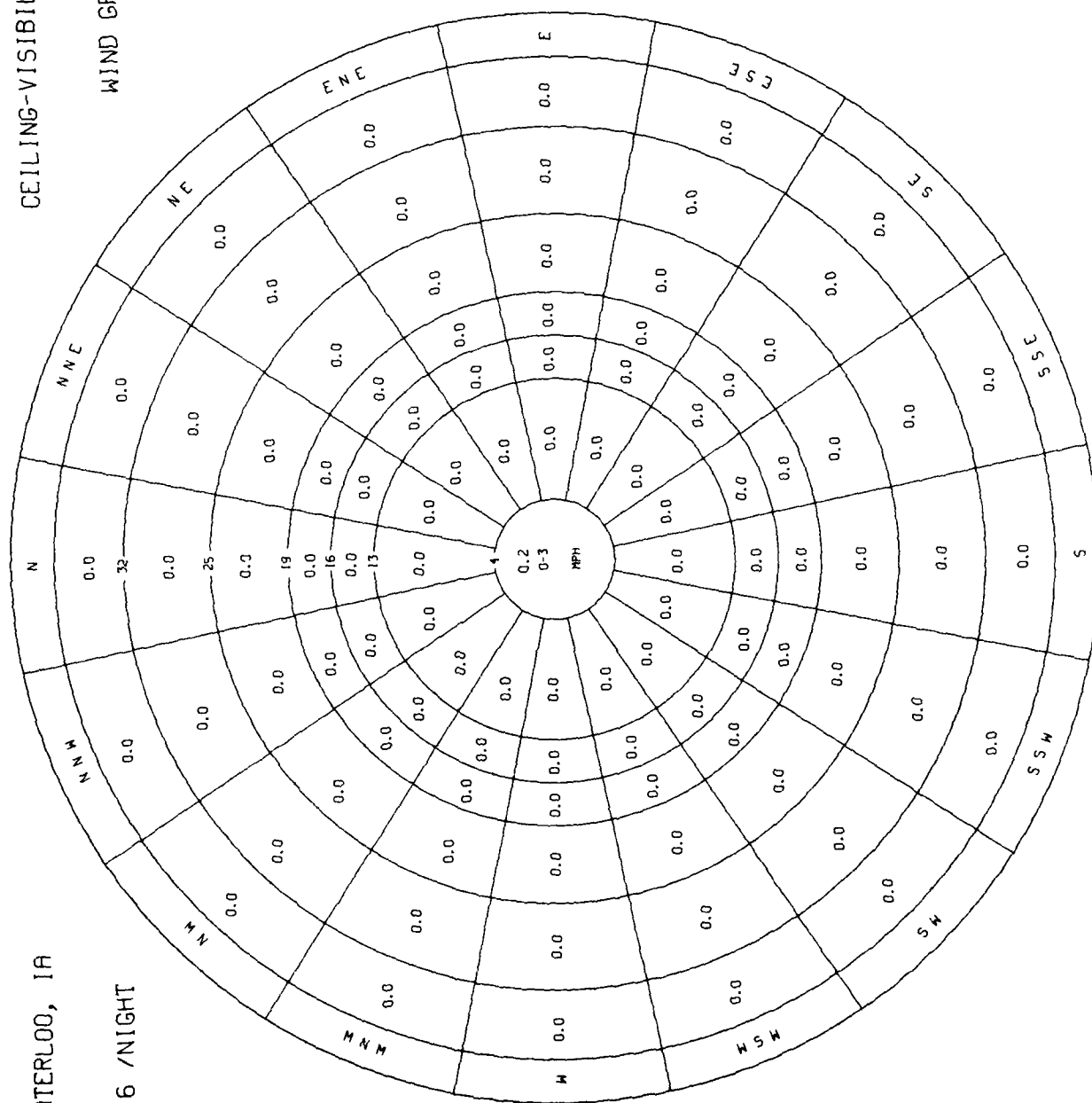
NO. OBS.: 118

STATION NUMBER: 94910

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	4.2	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	3.5
NNE	.0	.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.0
NE	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	9.7
ENE	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.4
E	.0	1.7	.0	4.2	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	6.8	7.5
ESE	.0	4.2	.0	6.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	6.0
SE	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	7.5
SSE	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.5
S	.0	2.5	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.0
SSW	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	1.7	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.4
WNW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
NW	.0	.8	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	5.1	10.5
NNW	.0	1.7	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	6.8	8.6
CALM	.1	22.0														.1	22.0	
TOTAL	.2	42.4	.2	53.4	.0	1.7	.0	.0	.0	.8	.0	.0	.0	.0	1.7	.4	100	5.3

ALO WATERLOO, IA

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ALO WATERLOO, IA

PERIOD: 1961-1978

CLASS 6 / NIGHT

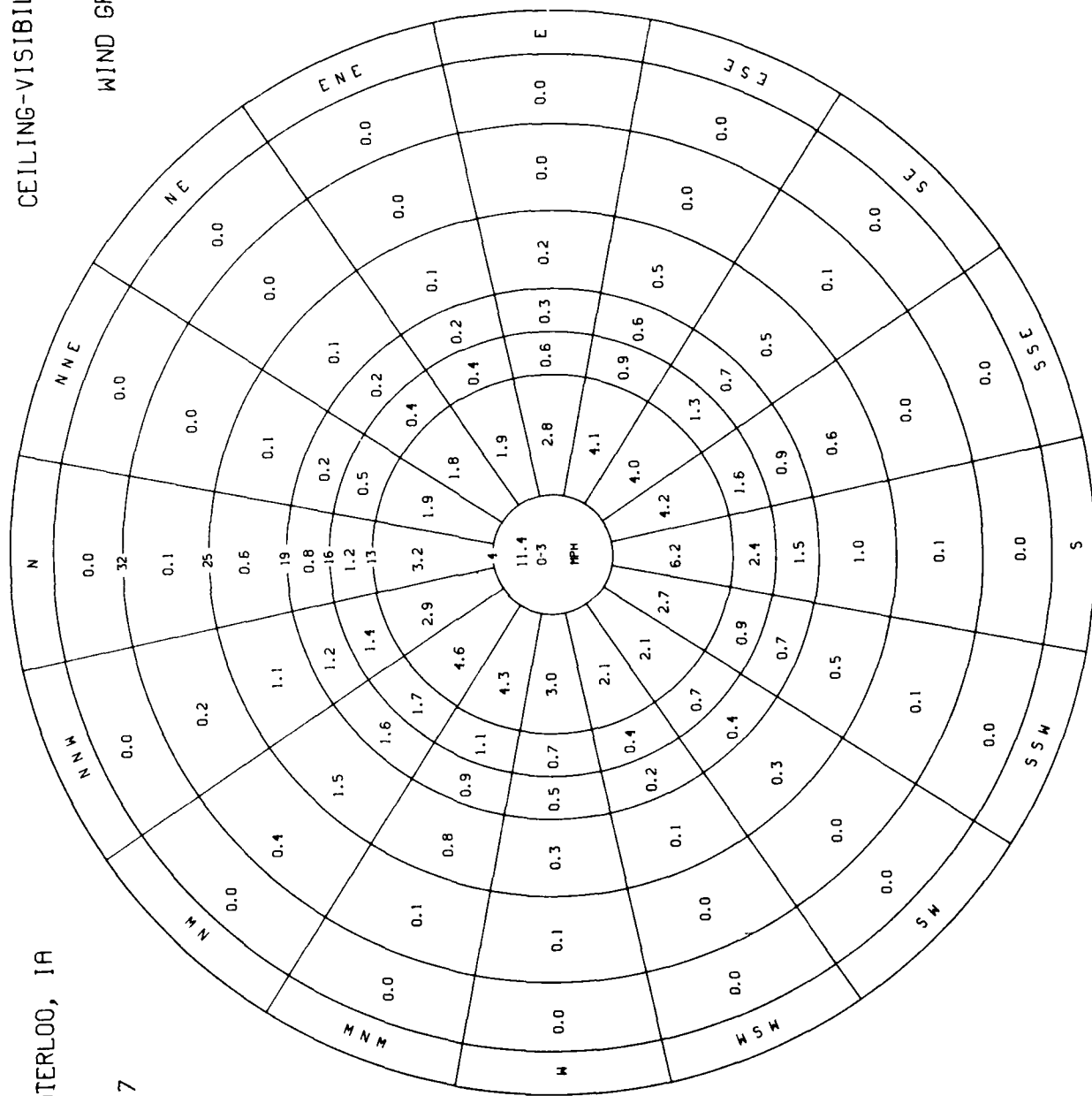
STATION NUMBER: 94910

NO. OBS.: 144

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.4	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
NNE	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2.1
NE	.0	.7	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	3.5
ENE	.0	1.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
E	.0	3.5	.0	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1
ESE	.0	3.5	.0	5.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	9.7
SE	.0	2.1	.0	7.6	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	11.8
SSE	.0	1.4	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9
S	.0	1.4	.0	4.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	6.3
SSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
SW	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
WSW	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
WNW	.0	.7	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
NW	.0	2.8	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
NNW	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
CALM	.1	17.4													17.4
TOTAL	.2	41.7	.3	52.1	.0	2.8	.0	.7	.0	.0	.0	1.4	.0	1.4	.6
															100
															5.8

CEILING-VISIBILITY

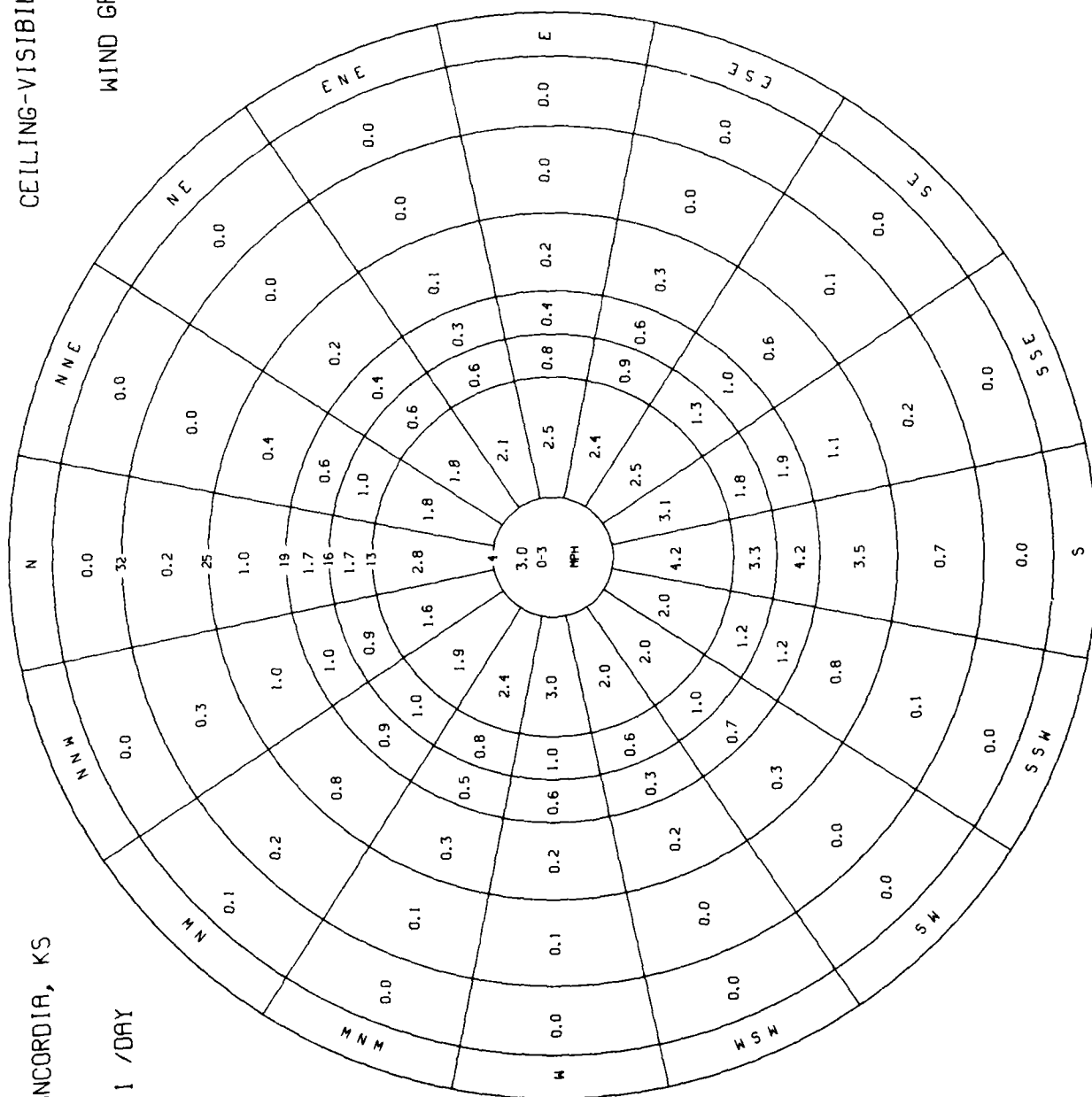
WIND GRAPH



CEILING-VISIBILITY
WIND GRAPH

CNK CONCORDIA, KS

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 1 / DAY

STATION NUMBER: 13984

NO. OBS.: 22063

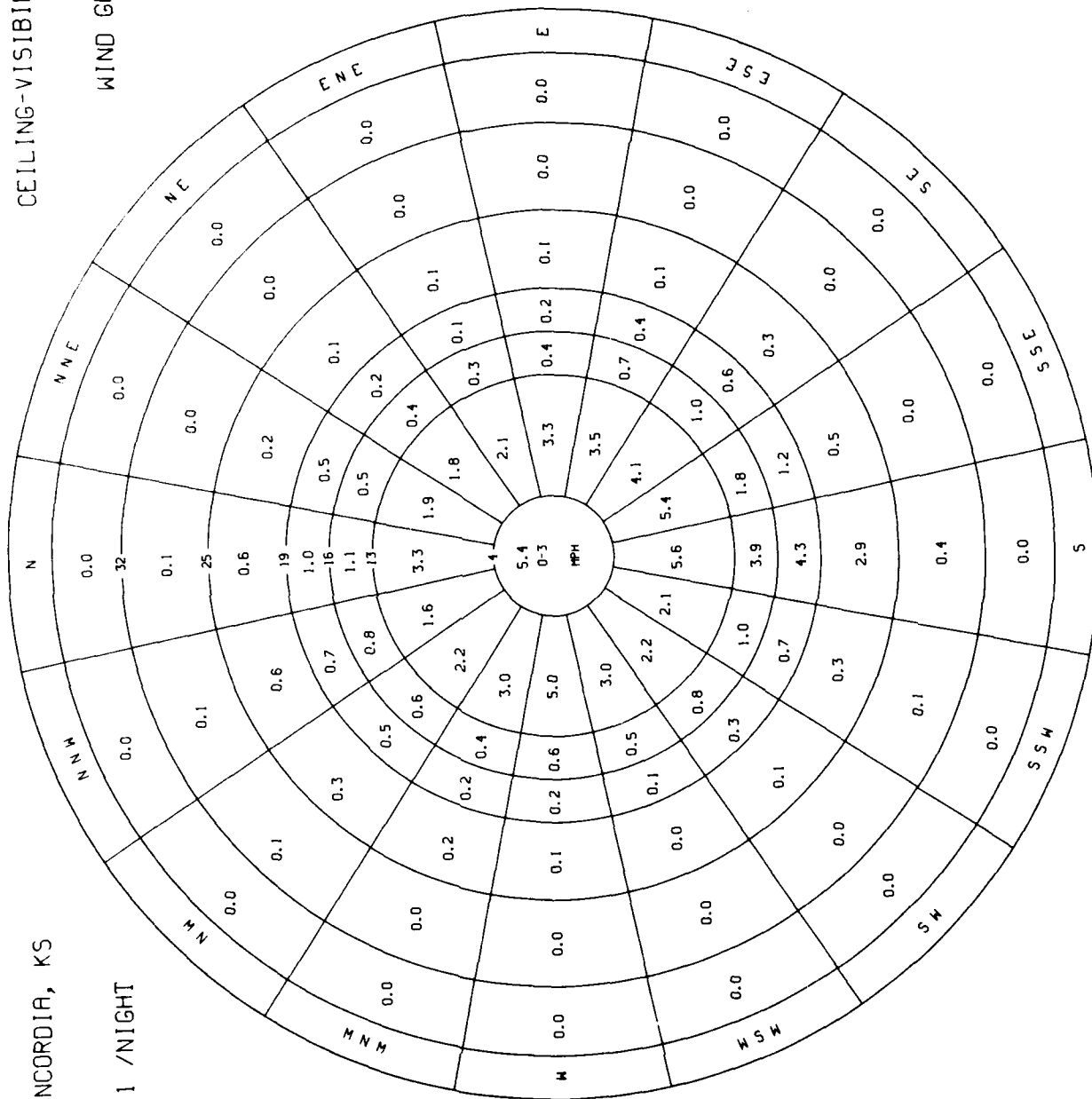
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.1	2.8	3.1	1.7	1.9	1.7	1.9	1.0	1.1	.2	.2	.0	.0	7.5 8.4
NNE	.1	.1	1.8	2.0	1.0	1.1	.6	.7	.4	.4	.0	.0	.0	.0	3.9 4.4
NE	.1	.1	1.8	2.0	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.1 3.5
ENE	.1	.1	2.1	2.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.2 3.6
E	.1	.2	2.5	2.8	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	4.0 4.5
ESE	.1	.1	2.4	2.7	.9	1.0	.6	.7	.3	.3	.0	.0	.0	.0	4.3 4.9
SE	.1	.1	2.5	2.8	1.3	1.4	1.0	1.1	.6	.7	.1	.1	.0	.0	5.5 6.2
SSE	.1	.1	3.1	3.4	1.8	2.1	1.9	2.1	1.1	1.2	.2	.2	.0	.0	8.1 9.1
S	.1	.1	4.2	4.8	3.3	3.7	4.2	4.8	3.5	3.9	.7	.8	.0	.1	16.1 18.1
SSW	.1	.1	2.0	2.2	1.2	1.3	1.2	1.3	.8	.9	.1	.1	.0	.0	5.2 5.9
SW	.1	.1	2.0	2.2	1.0	1.1	.7	.7	.3	.3	.0	.0	.0	.0	4.0 4.5
WSW	.1	.1	2.0	2.3	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	3.3 3.7
W	.1	.2	3.0	3.4	1.0	1.2	.6	.7	.2	.2	.1	.1	.0	.0	5.2 5.8
WNW	.1	.1	2.4	2.7	.8	.8	.5	.6	.3	.4	.1	.1	.0	.0	4.2 4.7
NW	.1	.1	1.9	2.2	1.0	1.1	.9	1.1	.8	.9	.2	.3	.1	.1	5.0 5.6
NNW	.1	.1	1.6	1.7	.9	1.0	1.0	1.1	1.0	1.1	.3	.3	.0	.0	4.8 5.4
CALM	1.4	1.6													1.4 1.6
TOTAL	3.0	3.4	37.9	42.7	18.3	20.6	16.5	18.5	10.9	12.3	2.0	2.3	.2	.2	88.8 100 13.1

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 1 / NIGHT

STATION NUMBER: 13984

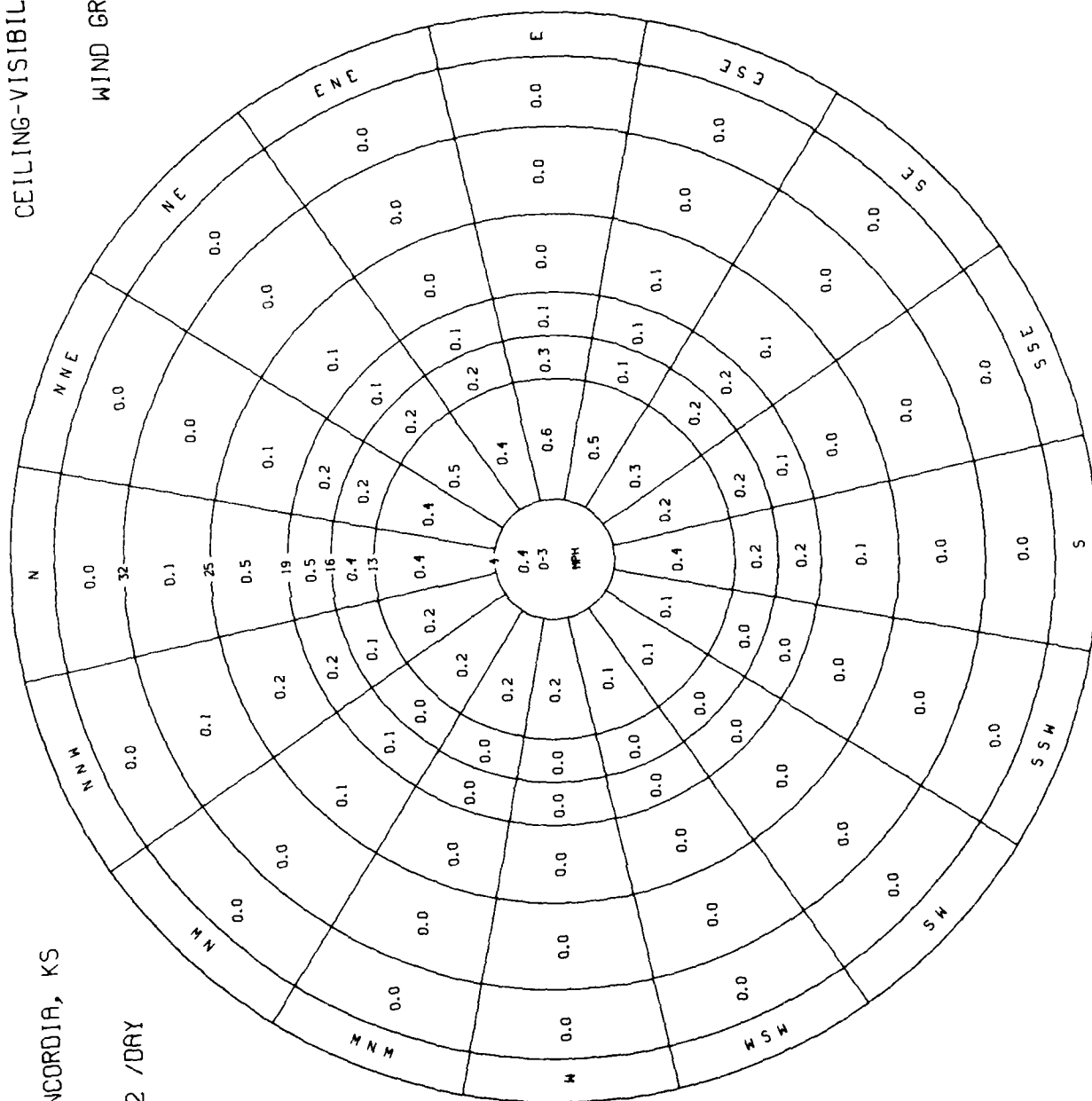
NO. OBS.: 19538

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.2	.2	3.3	3.7	1.1	1.2	1.0	1.1	.6	.6	.1	.1	.0	.0	6.2	7.0	12.3
NNE	.1	.1	1.9	2.1	.5	.6	.5	.5	.2	.2	.0	.0	.0	.0	3.2	3.6	10.9
NE	.2	.2	1.8	2.0	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6	2.9	9.6
ENE	.2	.2	2.1	2.4	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	2.8	3.1	8.9
E	.2	.3	3.3	3.7	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	4.3	4.8	8.7
ESE	.3	.3	3.5	4.0	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	5.0	5.6	9.5
SE	.2	.2	4.1	4.6	1.0	1.2	.6	.7	.3	.3	.0	.0	.0	.0	6.3	7.1	10.6
SSE	.2	.2	5.4	6.1	1.8	2.0	1.2	1.3	.5	.6	.0	.1	.0	.0	9.2	10.3	11.5
S	.2	.2	5.6	6.3	3.9	4.4	4.3	4.9	2.9	3.2	.4	.4	.0	.0	17.3	19.4	14.6
SSW	.1	.1	2.1	2.4	1.0	1.2	.7	.7	.3	.4	.1	.1	.0	.0	4.3	4.9	12.4
SW	.2	.2	2.2	2.5	.8	.8	.3	.3	.1	.1	.0	.0	.0	.0	3.5	3.9	10.5
WSW	.1	.1	3.0	3.4	.5	.6	.1	.2	.0	.0	.0	.0	.0	.0	3.8	4.3	9.6
W	.2	.2	5.0	5.6	.6	.6	.2	.2	.1	.1	.0	.0	.0	.0	6.1	6.8	9.2
WNW	.1	.2	3.0	3.4	.4	.4	.2	.3	.2	.2	.0	.0	.0	.0	4.0	4.5	9.7
NW	.1	.1	2.2	2.4	.6	.6	.5	.6	.3	.4	.1	.1	.0	.0	3.8	4.2	12.1
NNW	.1	.1	1.6	1.8	.8	.9	.7	.7	.6	.7	.1	.1	.0	.0	4.0	4.4	13.6
CALM	2.9	3.2													2.9	3.2	
TOTAL	5.4	6.1	50.2	56.3	14.8	16.6	11.3	12.6	6.5	7.3	.9	1.0	.1	.2	89.1	100	11.1

WIND GRAPH

CNK CONCORDIA, KS

CLASS 2 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 2 / DAY

STATION NUMBER: 13984

NO. OBS.: 2769

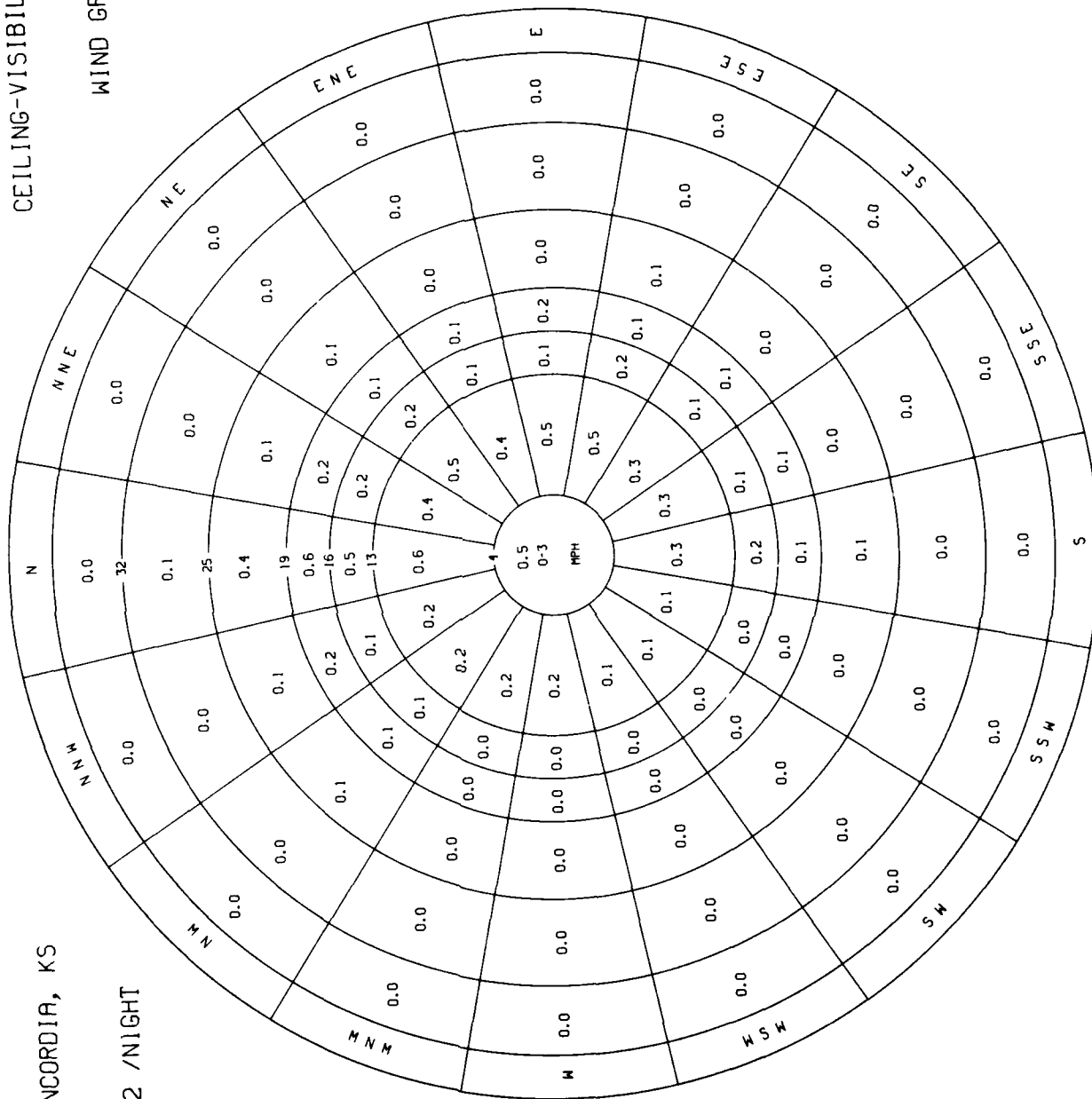
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.4	3.8	.4	3.9	.5	4.4	.5	4.1	.1	1.0	.0	.1	1.9	17.4	16.1
NNE	.0	.0	.4	3.6	.2	2.2	.2	1.4	.1	1.2	.0	.4	.0	.0	1.0	8.8	13.9
NE	.0	.0	.5	4.0	.2	1.5	.1	1.0	.1	.6	.0	.0	.0	.0	.8	7.2	12.1
ENE	.0	.2	.4	3.8	.2	2.0	.1	1.0	.0	.4	.0	.0	.0	.0	.8	7.4	11.7
E	.0	.3	.6	5.7	.3	2.6	.1	1.3	.0	.3	.0	.1	.0	.0	1.1	10.2	11.2
ESE	.0	.2	.5	4.4	.1	1.2	.1	1.3	.1	1.0	.0	.1	.0	.0	.9	8.2	12.2
SE	.0	.1	.3	2.9	.2	1.4	.2	1.4	.1	.7	.0	.1	.0	.0	.7	6.6	13.0
SSE	.0	.1	.2	2.2	.2	1.9	.1	1.0	.0	.4	.0	.0	.0	.0	.6	5.7	13.0
S	.0	.1	.4	3.3	.2	1.6	.2	1.4	.1	.8	.0	.2	.0	.0	.8	7.3	13.2
SSW	.0	.0	.1	.8	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.2	1.5	12.6
SW	.0	.0	.1	1.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.4	10.4
WSW	.0	.0	.1	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.0	8.8
W	.0	.1	.2	1.8	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.3	2.6	11.0
WNW	.0	.1	.2	1.4	.0	.1	.0	.3	.0	.2	.0	.1	.0	.0	.2	2.2	11.5
NW	.0	.1	.2	1.4	.0	.4	.1	.5	.1	.7	.0	.2	.0	.2	.4	3.4	15.4
NNW	.0	.1	.2	2.2	.1	1.2	.2	1.7	.2	1.6	.1	.5	.0	.2	.8	7.4	16.2
CALM	.2	1.8													.2	1.8	
TOTAL	.4	3.4	4.8	43.1	2.3	21.0	1.9	17.2	1.3	12.1	.3	2.7	.1	.6	11.2	100	13.1

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 2 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 2 / NIGHT

STATION NUMBER: 13984

NO. OBS.: 2382

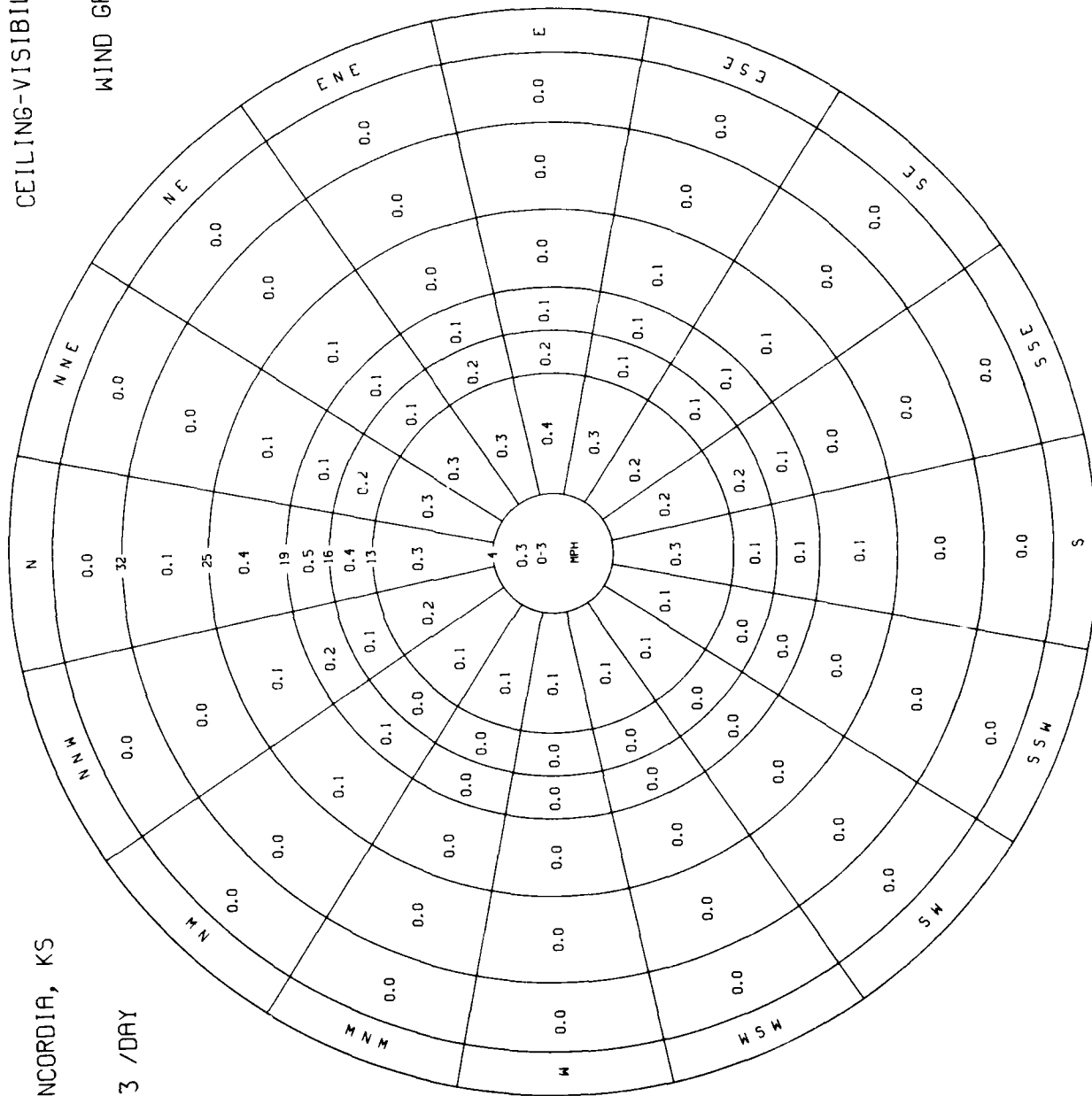
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.6	5.5	.5	4.3	.6	5.8	.4	3.8	.1	.8	.0	.1	2.2	20.4	15.4
NNE	.0	.2	.4	3.6	.2	1.6	.2	2.1	.1	1.3	.0	.3	.0	.0	1.0	8.9	13.9
NE	.0	.1	.5	4.7	.2	1.5	.1	1.0	.1	.8	.0	.1	.0	.0	.9	8.2	12.0
ENE	.0	.1	.4	3.8	.1	1.3	.1	1.1	.0	.3	.0	.0	.0	.0	.7	6.8	11.5
E	.1	.5	.5	5.0	.1	.8	.2	1.5	.0	.4	.0	.1	.0	.0	.9	8.2	11.0
ESE	.0	.2	.5	4.3	.2	1.8	.1	.8	.1	.5	.0	.0	.0	.0	.8	7.5	11.3
SE	.0	.1	.3	2.4	.1	1.3	.1	.8	.0	.4	.0	.0	.0	.0	.5	5.0	12.2
SSE	.0	.0	.3	2.6	.1	1.2	.1	.9	.0	.4	.0	.0	.0	.0	.6	5.2	12.2
S	.0	.2	.3	2.5	.2	1.8	.1	1.2	.1	.8	.0	.1	.0	.0	.7	6.5	13.2
SSW	.0	.0	.1	.6	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.2	11.1
SW	.0	.1	.1	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.5	9.2
WSW	.0	.1	.1	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	7.9
W	.0	.2	.2	1.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.4	8.5
WNW	.0	.2	.2	1.5	.0	.2	.0	.3	.0	.1	.0	.0	.0	.0	.3	2.4	10.4
NW	.0	.1	.2	1.8	.1	.8	.1	.9	.1	1.0	.0	.3	.0	.1	.5	4.9	15.2
NNW	.0	.1	.2	2.1	.1	1.2	.2	1.8	.1	1.3	.0	.4	.0	.0	.8	6.9	15.5
CALM	.3	2.7													.3	2.7	
TOTAL	.5	5.0	4.8	44.3	2.0	18.7	2.0	18.4	1.2	11.1	.2	2.2	.0	.3	10.9	100	12.6

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 3 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 3 / DAY

STATION NUMBER: 13984

NO. OBS.: 2195

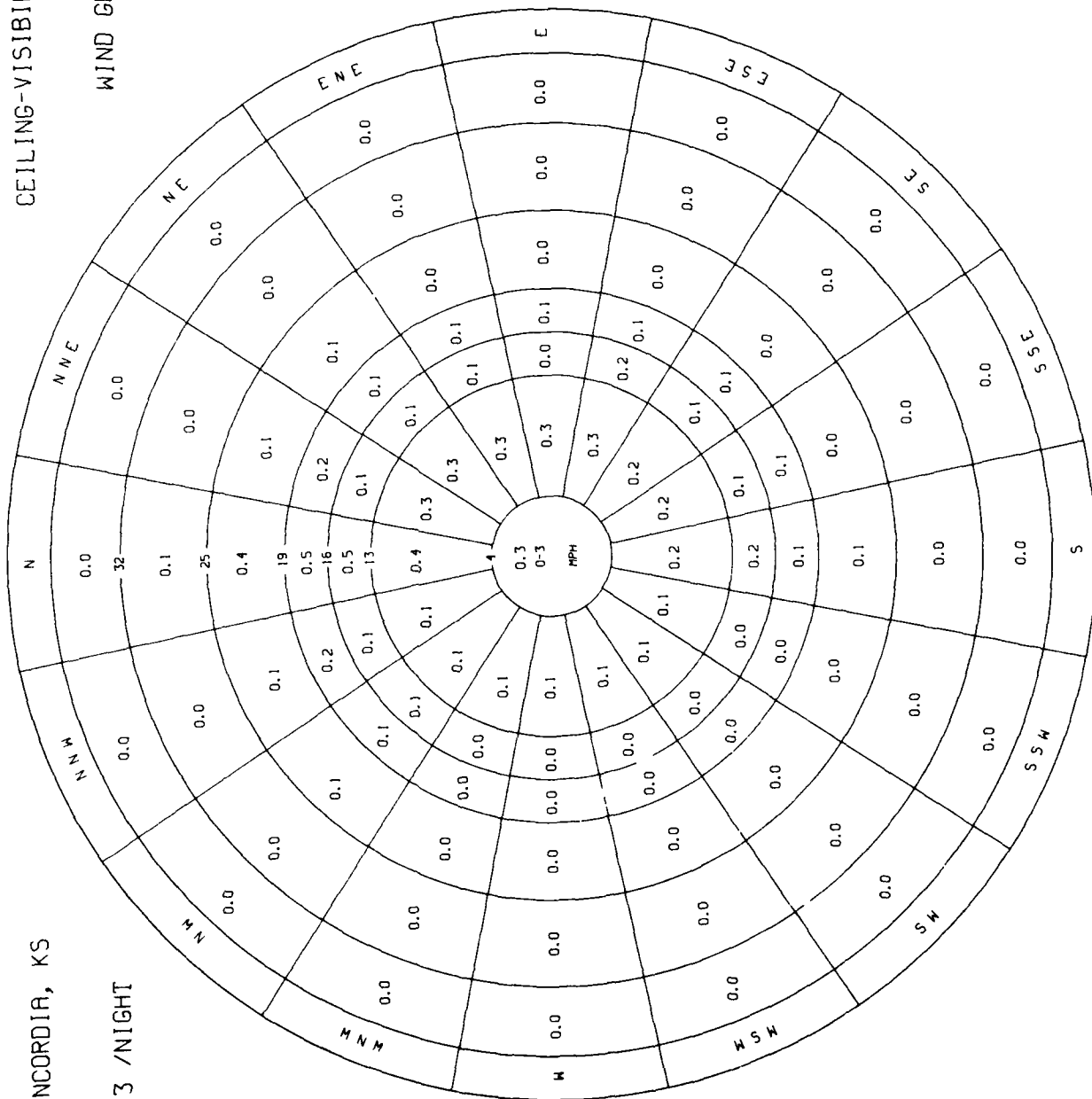
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.3	3.7	.4	4.2	.5	5.1	.4	4.7	.1	1.0	.0	.1	1.7 19.0
NNE	.0	.0	.3	3.3	.2	2.5	.1	1.3	.1	1.3	.0	.4	.0	.0	.8 8.8
N	.0	.0	.3	3.9	.1	1.3	.1	1.0	.1	.6	.0	.0	.0	.0	.6 6.8
ENE	.0	.2	.3	2.9	.2	1.8	.1	1.1	.0	.5	.0	.0	.0	.0	.6 6.5
E	.0	.2	.4	4.9	.2	2.3	.1	1.0	.0	.2	.0	.1	.0	.0	.8 8.7
ESE	.0	.1	.3	3.7	.1	1.0	.1	1.3	.1	1.0	.0	.1	.0	.0	.6 7.3
SE	.0	.1	.2	2.7	.1	1.5	.1	1.5	.1	.7	.0	.1	.0	.0	.6 6.7
SSE	.0	.1	.2	2.2	.2	2.1	.1	1.2	.0	.4	.0	.0	.0	.0	.5 6.0
S	.0	.0	.3	3.3	.1	1.7	.1	1.6	.1	.9	.0	.2	.0	.0	.7 7.8
SSW	.0	.0	.1	.9	.0	.5	.0	.2	.0	.1	.0	.0	.0	.0	.2 1.8
SW	.0	.0	.1	1.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1 1.5
WSW	.0	.0	.1	.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.0
W	.0	.1	.1	1.7	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.2 2.5
WNW	.0	.1	.1	1.4	.0	.1	.0	.3	.0	.2	.0	.1	.0	.0	.2 2.3
NW	.0	.0	.1	1.5	.0	.5	.1	.6	.1	.8	.0	.2	.0	.2	.3 3.9
NNW	.0	.1	.2	2.2	.1	1.4	.2	2.1	.1	1.7	.0	.3	.0	.2	.7 8.0
CALM	.1	1.5													.1 1.5
TOTAL	.3	3.0	3.5	40.0	1.9	21.4	1.7	18.7	1.2	13.4	.2	2.7	.1	.7	8.8 100
															13.5

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1963-1978

STATION NAME: CNK CONCORDIA, KS

CLASS 3 / NIGHT

NO. OBS.: 1737

STATION NUMBER: 13984

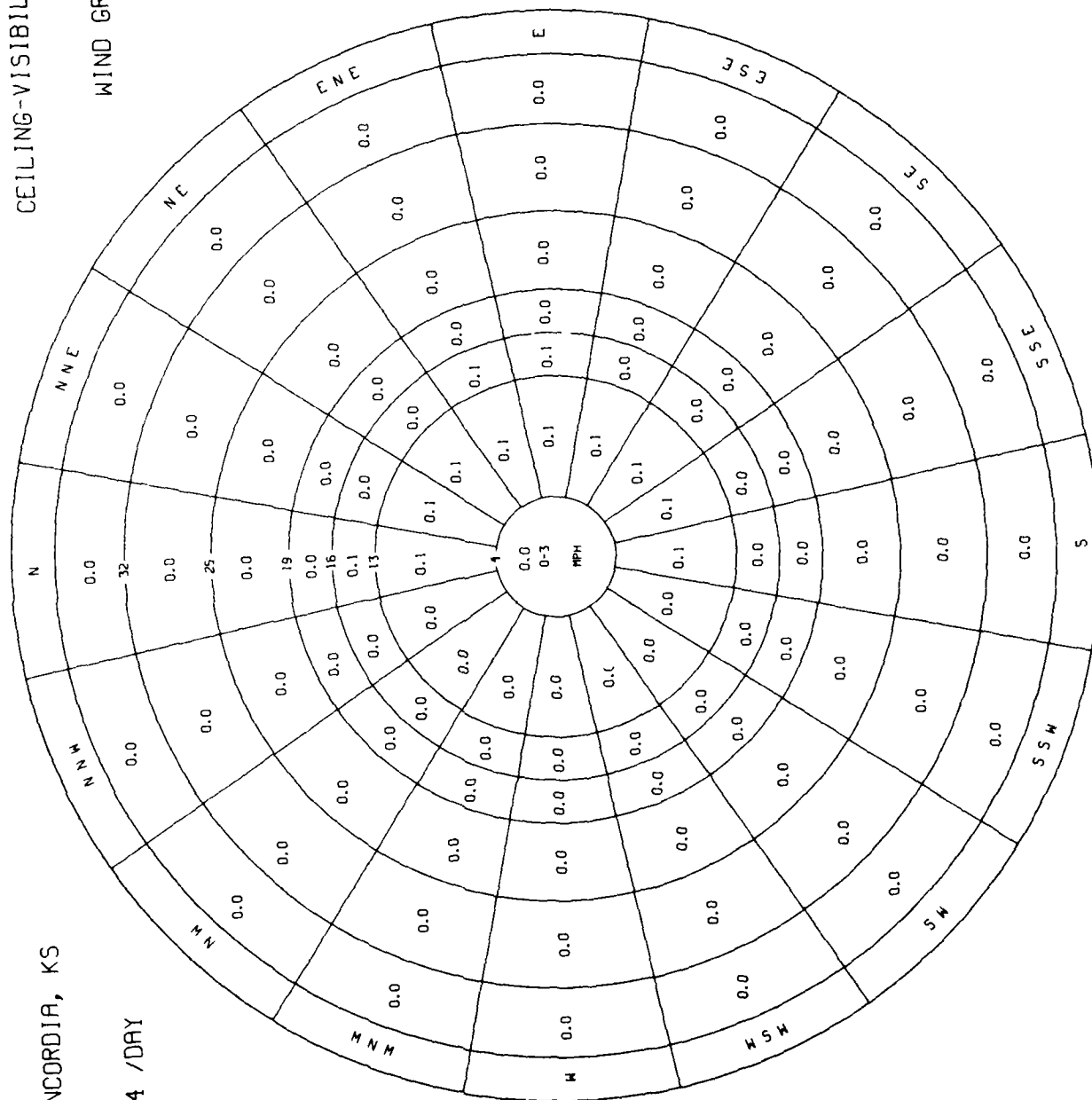
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
																	C
N	.0	.2	.4	5.5	.5	5.7	.5	6.7	.4	4.4	.1	1.0	.0	.0	1.9	23.5	15.5
NNE	.0	.2	.3	3.6	.1	1.5	.2	2.1	.1	1.5	.0	.3	.0	.0	.7	9.3	14.0
NE	.0	.1	.3	4.3	.1	1.4	.1	1.1	.1	1.0	.0	.0	.0	.0	.6	7.8	12.5
ENE	.0	.1	.3	3.2	.1	1.6	.1	1.2	.0	.3	.0	.1	.0	.0	.5	6.4	12.0
E	.0	.1	.3	4.1	.0	.3	.1	1.6	.0	.3	.0	.1	.0	.0	.5	6.6	11.5
ESE	.0	.1	.3	3.2	.2	1.9	.1	.6	.0	.6	.0	.0	.0	.0	.5	6.4	12.0
SE	.0	.0	.2	2.1	.1	1.5	.1	1.0	.0	.6	.0	.0	.0	.0	.4	5.1	13.2
SSE	.0	.0	.2	2.8	.1	1.2	.1	1.3	.0	.5	.0	.0	.0	.0	.5	5.8	12.7
S	.0	.1	.2	2.2	.2	2.1	.1	1.4	.1	.7	.0	.1	.0	.0	.5	6.7	13.7
SSW	.0	.0	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.3	11.0
SW	.0	.1	.1	.7	.0	.2	.0	.1	.0	.1	.0	.1	.0	.0	.1	1.2	10.6
WSW	.0	.1	.1	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.1	8.5
W	.0	.1	.1	1.4	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.2	2.0	9.1
WNW	.0	.2	.1	1.1	.0	.2	.0	.4	.0	.2	.0	.1	.0	.1	.2	2.2	12.1
NW	.0	.1	.1	1.4	.1	.9	.1	1.2	.1	1.2	.0	.3	.0	.0	.4	5.0	15.6
NNW	.0	.0	.1	1.7	.1	1.5	.2	2.3	.1	1.7	.0	.5	.0	.0	.6	7.7	16.5
CALM	.2	2.0													.2	2.0	
TOTAL	.3	3.4	3.1	38.9	1.7	20.9	1.7	21.3	1.0	13.1	.2	2.4	.0	.1	.7	9	100
																	13.4

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 4 / DAY

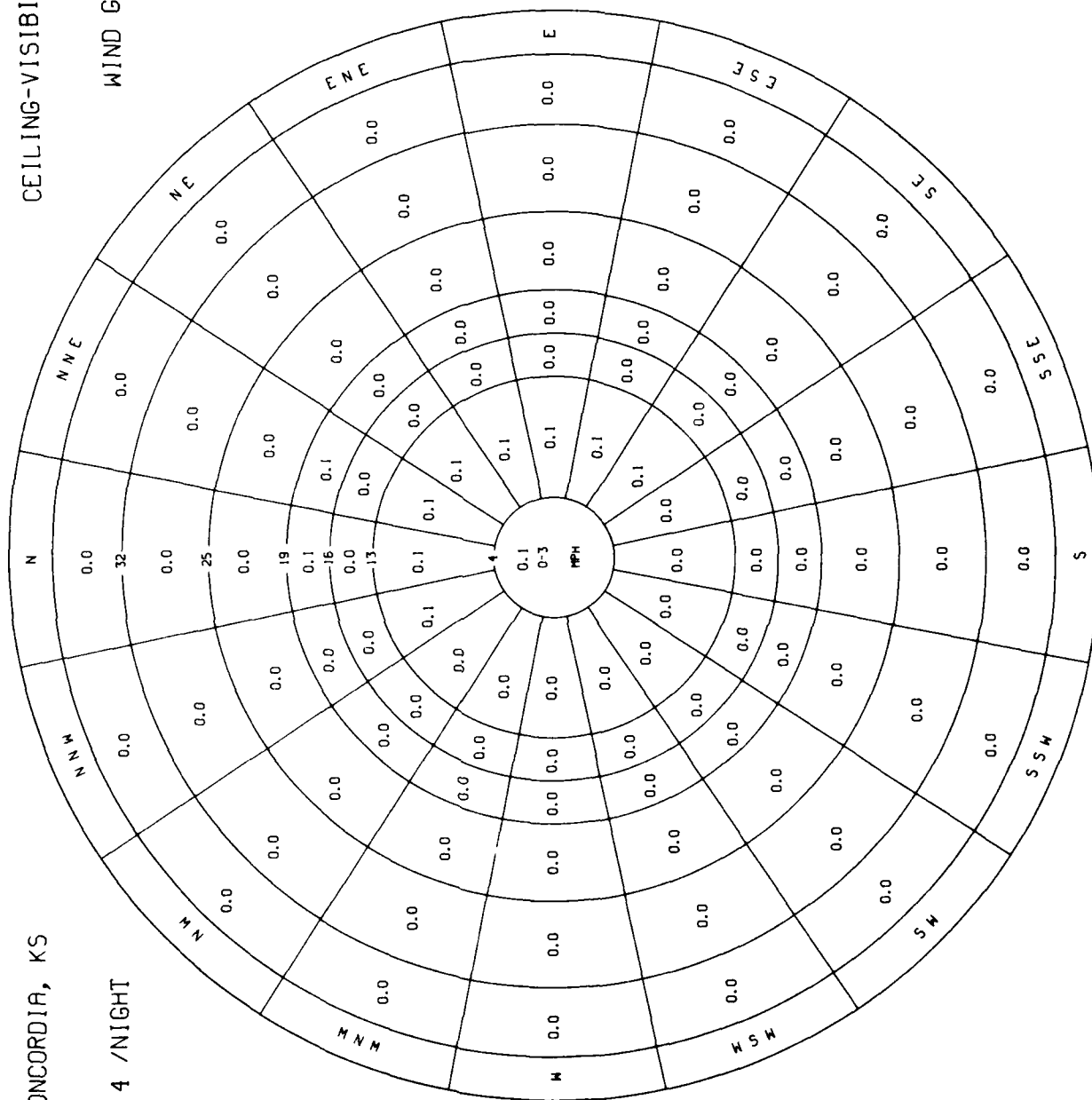
STATION NUMBER: 13984

NO. OBS.: 387

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	3.9	.1	3.6	.0	2.6	.0	2.6	.0	1.0	.0	.0	.2 13.7
NNE	.0	.0	.1	3.6	.0	1.0	.0	2.3	.0	1.0	.0	.3	.0	.0	.1 8.3
NE	.0	.3	.1	4.4	.0	2.1	.0	1.0	.0	.5	.0	.0	.0	.0	.1 8.3
ENE	.0	.0	.1	7.5	.1	3.6	.0	.8	.0	.0	.0	.0	.0	.0	.2 11.9
E	.0	.3	.1	7.8	.1	4.9	.0	2.1	.0	.8	.0	.0	.0	.0	.2 15.8
ESE	.0	.3	.1	7.0	.0	2.6	.0	1.6	.0	1.0	.0	.0	.0	.0	.2 12.4
SE	.0	.0	.1	3.4	.0	1.6	.0	1.6	.0	.5	.0	.0	.0	.0	.1 7.0
SSE	.0	.0	.1	3.6	.0	1.8	.0	.3	.0	.3	.0	.0	.0	.0	.1 5.9
S	.0	.0	.1	3.4	.0	1.0	.0	.8	.0	.5	.0	.0	.0	.0	.1 5.7
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
WSW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
W	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0 1.3
WNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
NW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0 .8
NNW	.0	.0	.0	1.6	.0	.5	.0	.3	.0	.8	.0	1.6	.0	.0	.1 4.7
CALM	.0	1.3													.0 1.3
TOTAL	.0	2.1	.8	50.6	.4	22.7	.2	13.2	.1	8.0	.1	3.4	.0	.0	1.6 100

CNK CONCORDIA, KS

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 4 / NIGHT

STATION NUMBER: 13984

NO. OBS.: 342

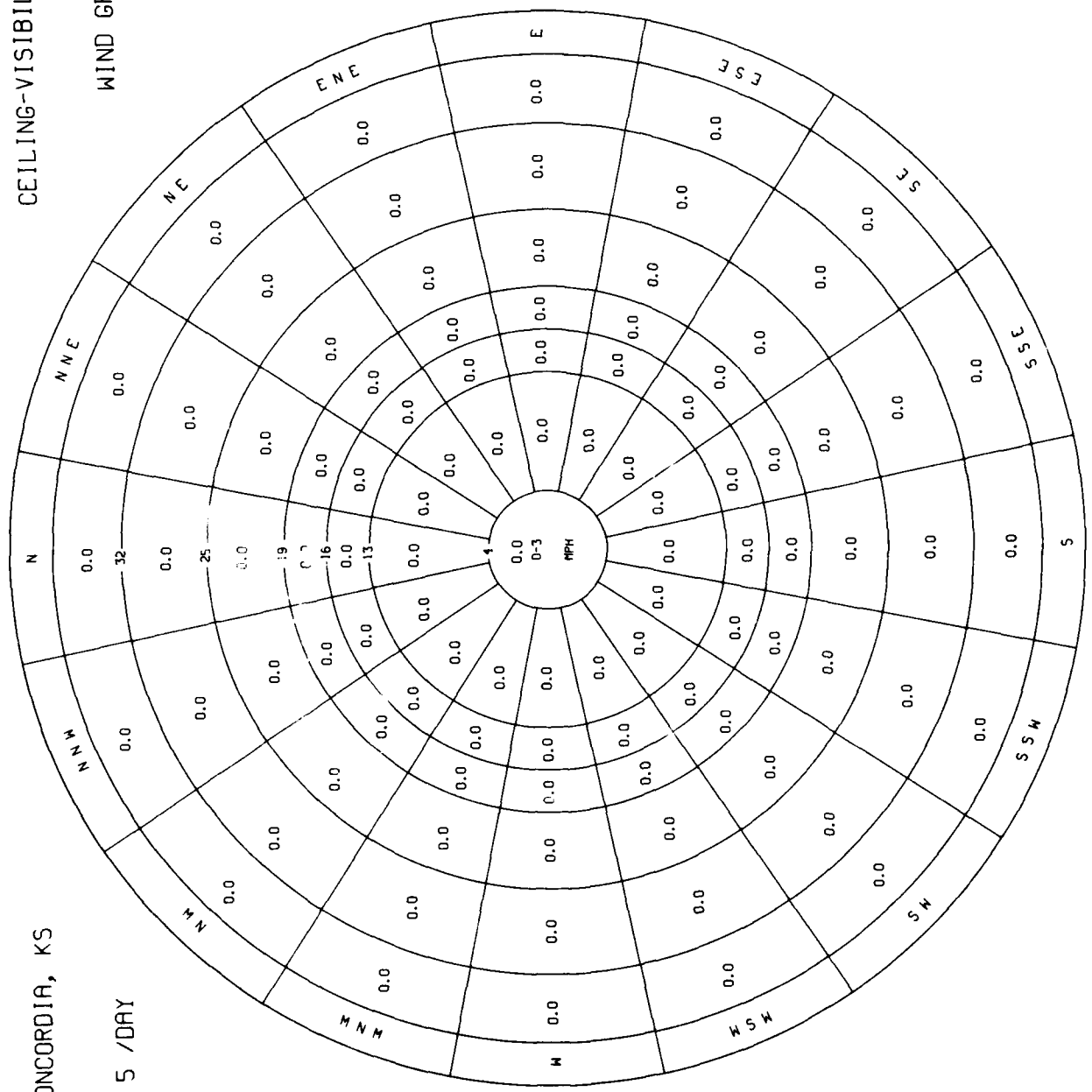
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.1	4.1	.0	.9	.1	5.0	.0	2.3	.0	.6	.0	.0	.2	13.2	15.1
NNE	.0	.0	.1	4.4	.0	2.0	.1	3.2	.0	.9	.0	.3	.0	.0	.2	10.8	13.3
NE	.0	.3	.1	5.6	.0	2.0	.0	1.2	.0	.3	.0	.6	.0	.0	.2	9.9	12.0
ENE	.0	.0	.1	7.3	.0	.9	.0	1.2	.0	.3	.0	.0	.0	.0	.2	9.6	10.2
E	.0	1.2	.1	7.3	.0	1.8	.0	1.8	.0	.6	.0	.3	.0	.0	.2	12.9	11.1
ESE	.0	.0	.1	6.1	.0	1.5	.0	.6	.0	.3	.0	.0	.0	.0	.1	8.5	10.8
SE	.0	.0	.1	3.5	.0	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.0	10.1
SSE	.0	.0	.0	2.3	.0	1.5	.0	.0	.0	.0	.0	.3	.0	.0	.1	4.1	11.1
S	.0	.0	.0	2.3	.0	2.0	.0	.3	.0	1.2	.0	.0	.0	.0	.1	5.8	13.4
SSW	.0	.0	.0	.6	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.8	12.8
SW	.0	.0	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	8.5
WSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.8
W	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.8	10.5
WNW	.0	.3	.0	2.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.4
NW	.0	.0	.0	.9	.0	.3	.0	.0	.0	.6	.0	.3	.0	.9	.0	2.9	21.9
NNW	.0	.3	.1	3.5	.0	.3	.0	.9	.0	.6	.0	.3	.0	.0	.1	5.8	11.9
CALM	.0	1.8													.0	1.8	
TOTAL	.1	4.1	.9	54.7	.2	15.8	.2	14.6	.1	7.3	.0	2.6	.0	.9	1.6	10.0	11.9

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 5 / DAY

STATION NUMBER: 13984

NO. OBS.: 100

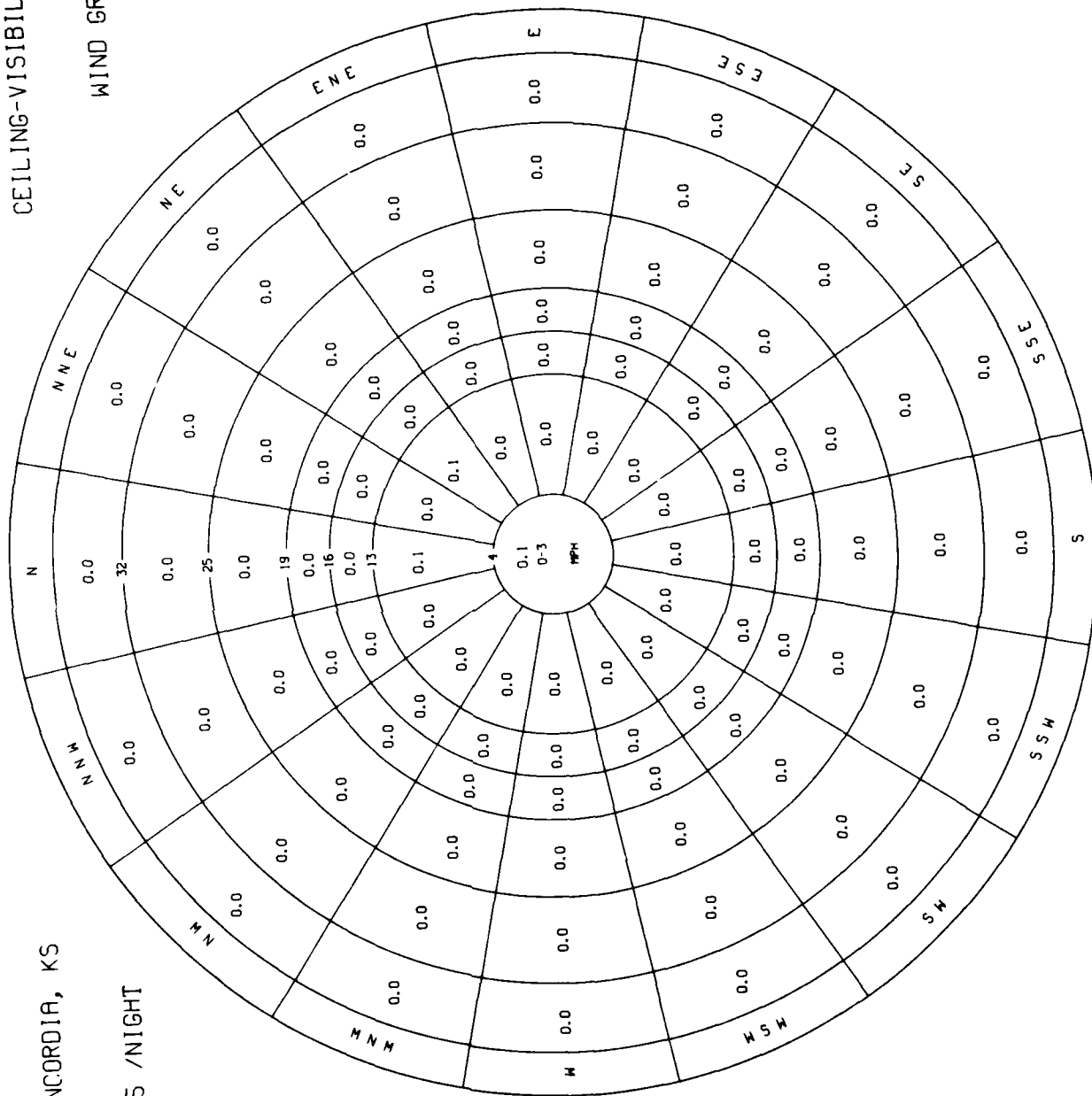
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	5.0	.0	1.0	.0	1.0	.0	.0	.0	1.0	.0	1.0	.0 9.0
NNE	.0	.0	.0	7.0	.0	3.0	.0	1.0	.0	1.0	.0	1.0	.0	.0	.1 13.0
NE	.0	.0	.0	6.0	.0	4.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0 11.0
ENE	.0	.0	.0	3.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	.0	.0 6.0
E	.0	.0	.0	7.0	.0	2.0	.0	4.0	.0	.0	.0	.0	.0	.0	.1 13.0
ESE	.0	1.0	.0	6.0	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0 10.0
SE	.0	.0	.0	6.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0 8.0
SSE	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0 2.0
S	.0	.0	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
SSW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
WSW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
W	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
WNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
NW	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0 4.0
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	1.0	.0 7.0
CALM	.0	3.0													.0 3.0
TOTAL	.0	5.0	.2	53.0	.1	17.0	.0	11.0	.0	9.0	.0	3.0	.0	2.0	.4 100
															12.4

CEILING-VISIBILITY

WIND GRAPH

CNK CONCORDIA, KS

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 5 / NIGHT

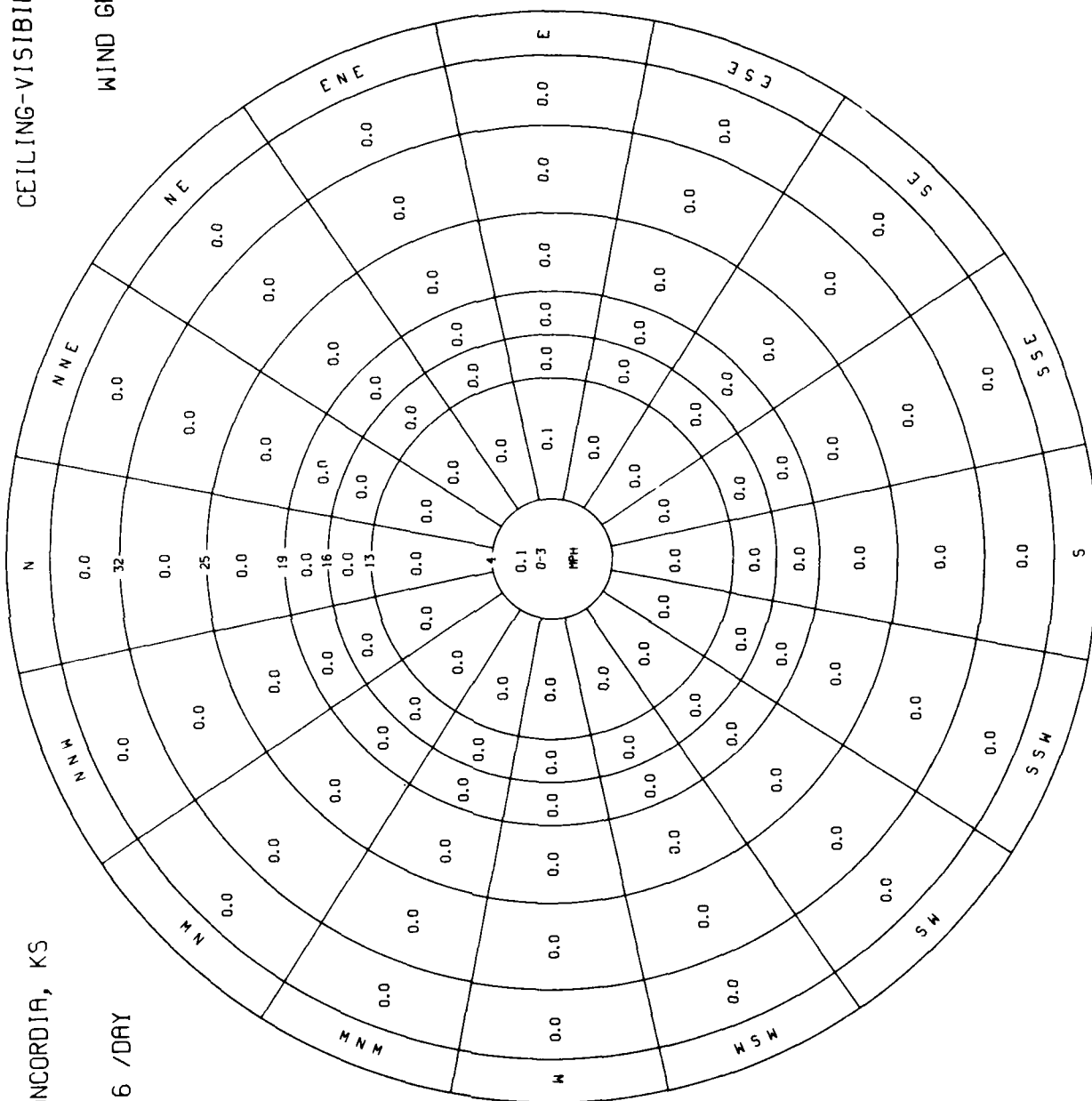
STATION NUMBER: 13984

NO. OBS.: 150

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	8.0	.0	.7	.0	1.3	.0	2.7	.0	.7	.0	.0	.1 13.3
NNE	.0	.0	.0	3.3	.0	2.0	.0	2.0	.0	.7	.0	.0	.0	.0	.1 8.0
NE	.0	.0	.1	8.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.7
ENE	.0	.7	.0	1.3	.0	.7	.0	1.3	.0	.7	.0	.0	.0	.0	.0 4.7
E	.0	1.3	.0	6.0	.0	2.0	.0	.0	.0	.7	.0	.0	.0	.0	.1 10.0
ESE	.0	.7	.0	6.0	.0	2.7	.0	2.0	.0	.0	.0	.0	.0	.0	.1 11.3
SE	.0	.7	.0	6.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 8.0
SSE	.0	.0	.0	2.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
S	.0	.0	.0	3.3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 4.0
SSW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
SW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
WSW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
W	.0	1.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
WNW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
NW	.0	.0	.0	4.7	.0	1.3	.0	.0	.0	.7	.0	.0	.0	.0	.1 7.3
NNW	.0	.7	.0	2.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0 4.7
CALM	.0	5.3													.0 5.3
TOTAL	.1	11.3	.4	58.0	.1	15.3	.1	8.0	.0	5.3	.0	1.3	.0	.7	.7 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 6 / DAY

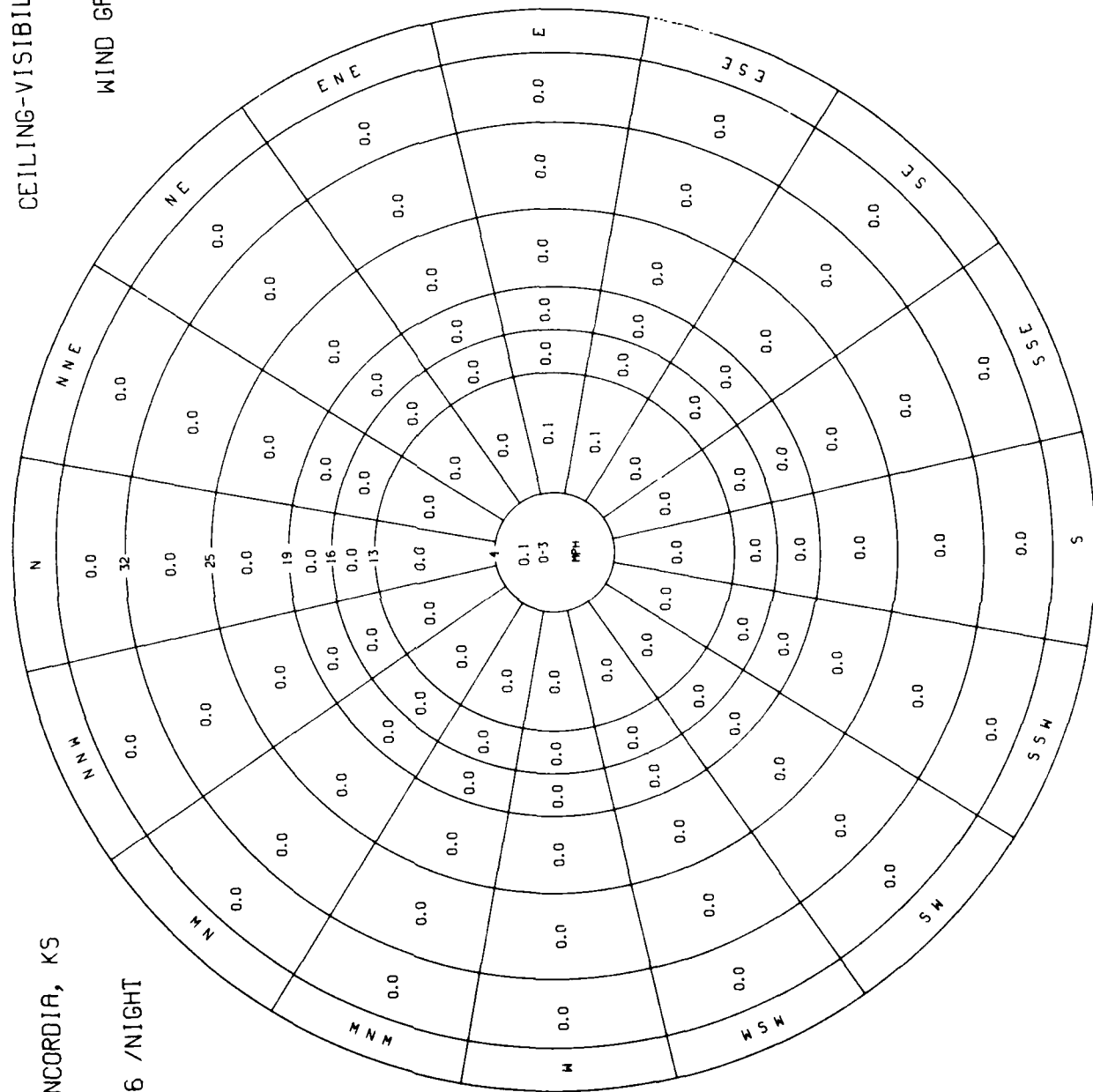
STATION NUMBER: 13984

NO. OBS.: 87

D I R	SPEED GROUPS (MPH)													AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
NNE	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
NE	.0	.0	.0	4.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
ENE	.0	.0	.0	11.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 13.8
E	.0	1.1	.1	14.9	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.1 20.7
ESE	.0	1.1	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.2
SE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
SSE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
S	.0	1.1	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	.0	.0	9.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.2
WNW	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
NW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
NNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
CALM	.0	11.5													.0 11.5
TOTAL	.1	16.1	.3	74.7	.0	6.9	.0	2.3	.0	.0	.0	.0	.0	.0	.4 100

CEILING-VISIBILITY

WIND GRAPH



CNK CONCORDIA, KS

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CNK CONCORDIA, KS

PERIOD: 1963-1978

CLASS 6 / NIGHT

STATION NUMBER: 13984

NO. OBS.: 153

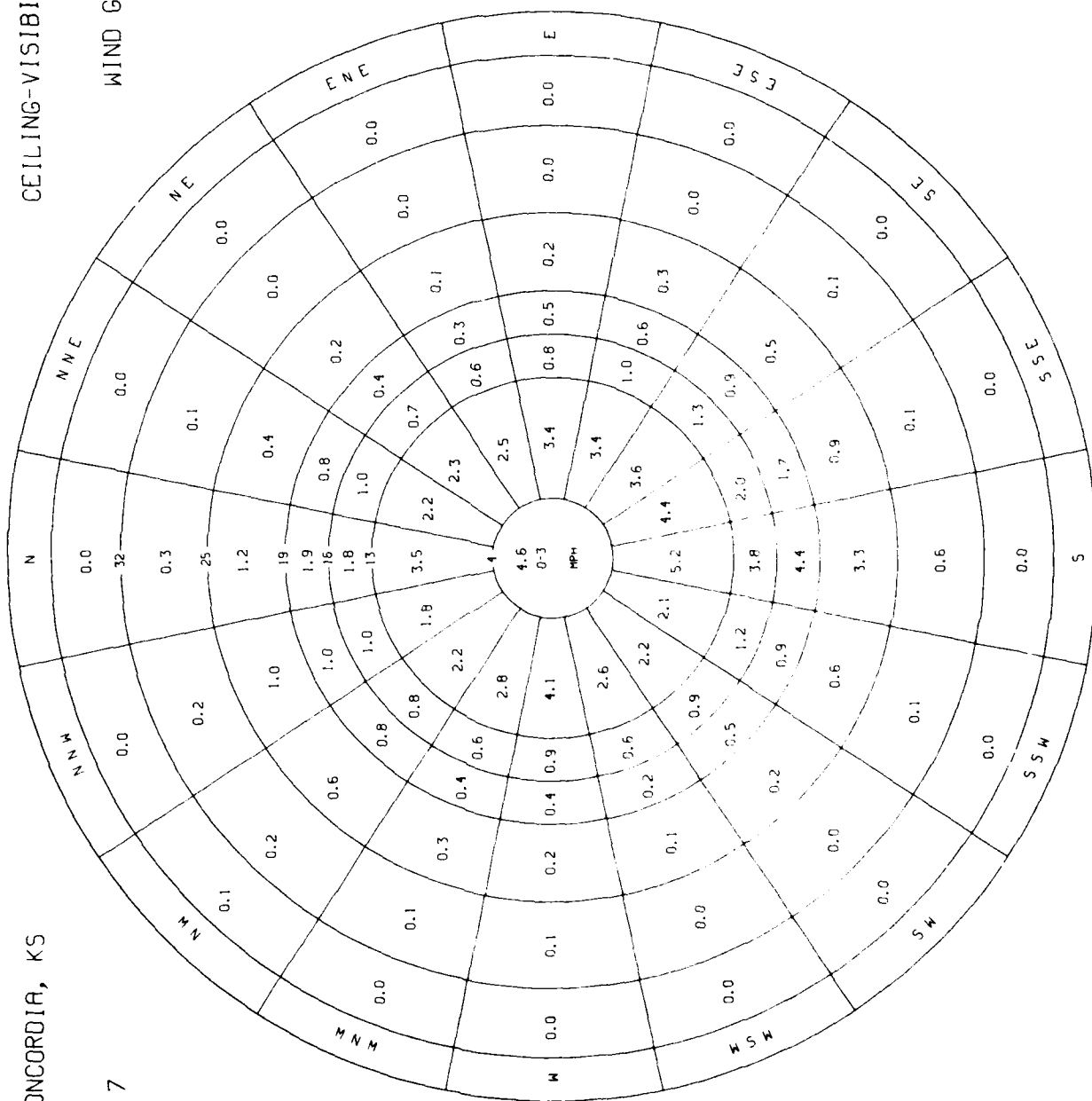
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	5.9	.0	.0	.0	.7	.0	.7	.0	.0	.0	1.3	.1 8.5
NNE	.0	.0	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
NNE	.0	.0	.0	5.2	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0 6.5
ENE	.0	.0	.0	5.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
E	.0	2.0	.1	9.2	.0	2.0	.0	.7	.0	.7	.0	.0	.0	.0	.1 14.4
ESE	.0	.7	.1	10.5	.0	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.1 13.1
SE	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
SSE	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
S	.0	1.3	.0	4.6	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.1 7.2
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SW	.0	.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
WSW	.0	.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
W	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
WNW	.0	.7	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.2
NW	.0	.7	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
NNW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
CALM	.1	10.5													.1 10.5
TOTAL	.1	19.0	.5	69.3	.0	3.9	.0	3.9	.0	2.6	.0	.0	.0	1.3	.7 100
															7.8

CEILING-VISIBILITY

WIND GRAPH

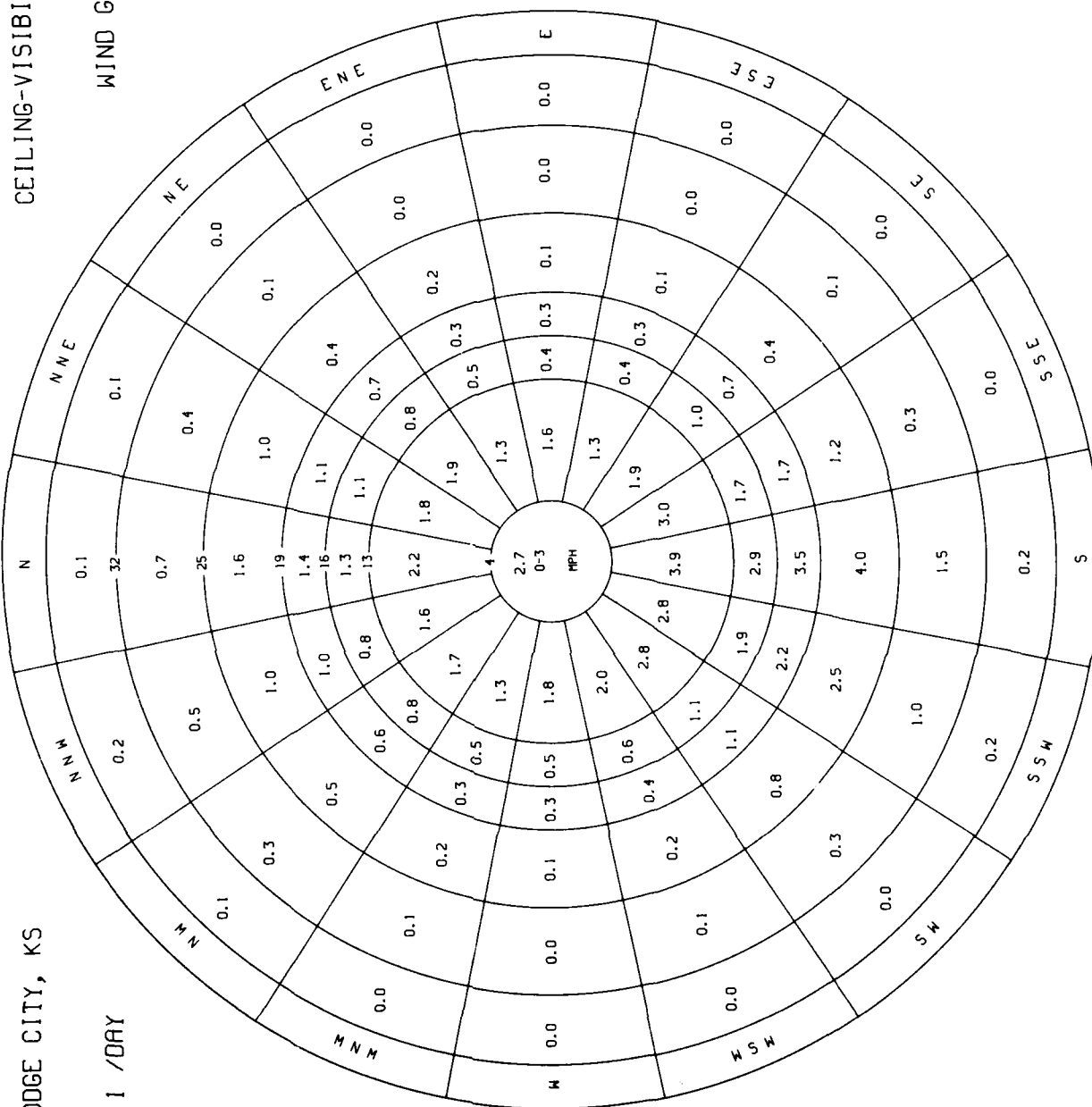
CNK CONCORDIA, KS

CLASS 7



CEILING-VISIBILITY

WIND GRAPH



DDC DODGE CITY, KS

CLASS 1 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DDC DOOGEE CITY, KS

CLASS 1 / DAY

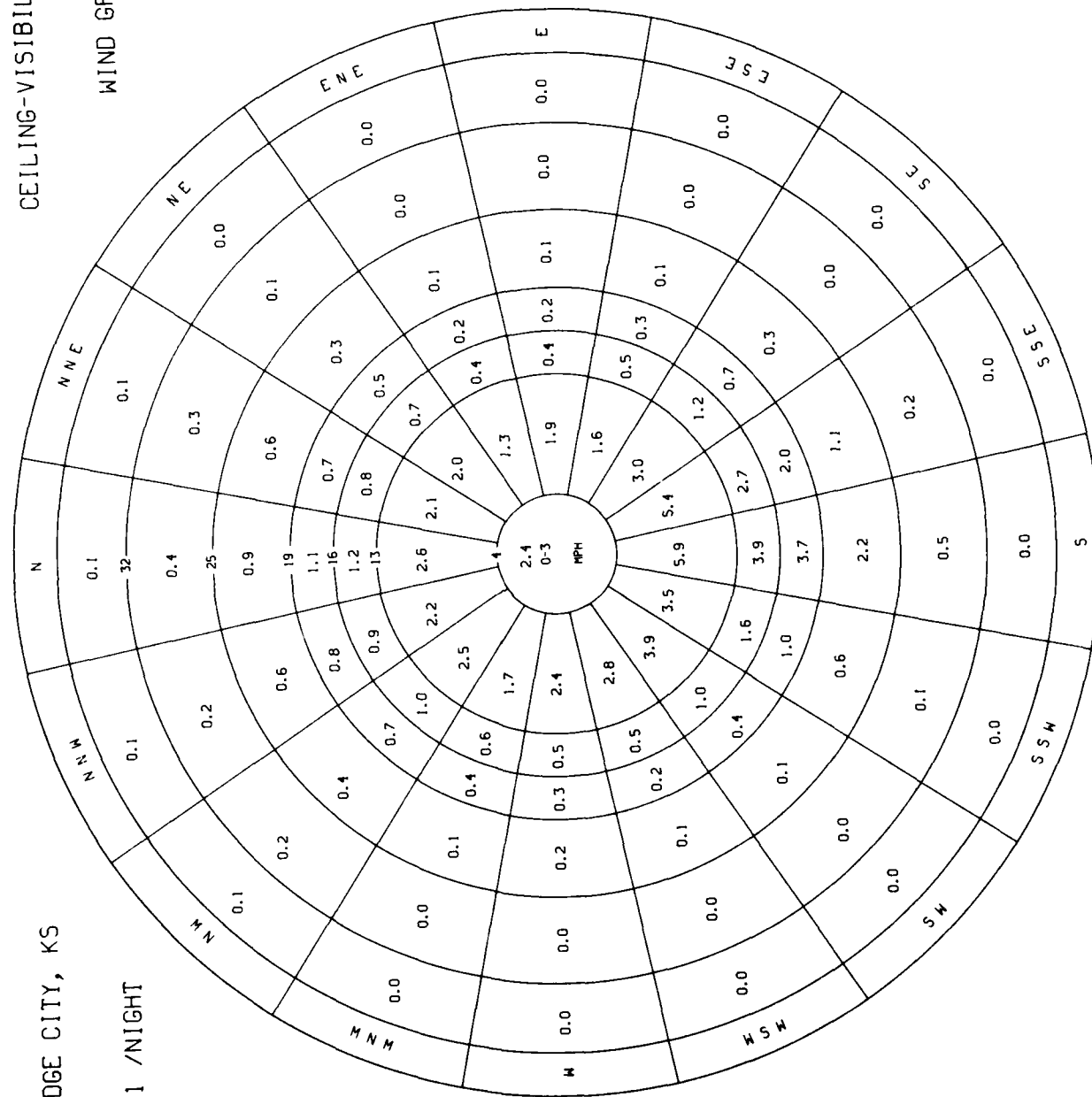
NO. OBS.: 43618

STATION NUMBER: 13985

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.2	.2	2.2	2.5	1.3	1.4	1.4	1.6	1.6	1.8	.7	.8	.1	.2	7.6	8.5	16.1
NNE	.1	.1	1.8	2.1	1.1	1.2	1.1	1.2	1.0	1.1	.4	.5	.1	.1	5.6	6.3	15.2
NE	.1	.2	1.9	2.1	.8	.9	.7	.7	.4	.5	.1	.1	.0	.0	4.0	4.5	12.9
ENE	.1	.1	1.3	1.4	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	2.4	2.8	11.8
E	.2	.2	1.6	1.8	.4	.5	.3	.3	.1	.2	.0	.0	.0	.0	2.6	3.0	10.7
ESE	.1	.1	1.3	1.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.3	2.6	11.0
SE	.1	.2	1.9	2.1	1.0	1.1	.7	.8	.4	.5	.1	.1	.0	.0	4.2	4.7	12.8
SSE	.1	.1	3.0	3.3	1.7	2.0	1.7	1.9	1.2	1.4	.3	.4	.0	.0	8.1	9.1	14.4
S	.2	.2	3.9	4.4	2.9	3.2	3.5	3.9	4.0	4.5	1.5	1.7	.2	.2	16.1	18.1	16.7
SSW	.1	.1	2.8	3.2	1.9	2.2	2.2	2.5	2.5	2.8	1.0	1.1	.2	.2	10.7	12.1	16.5
SW	.2	.2	2.8	3.2	1.1	1.3	1.1	1.3	.8	1.0	.3	.4	.0	.0	6.5	7.3	13.7
WSW	.1	.1	2.0	2.2	.6	.6	.4	.5	.2	.3	.1	.1	.0	.0	3.4	3.8	11.7
W	.2	.2	1.8	2.0	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	2.9	3.3	11.0
WNW	.1	.1	1.3	1.5	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	2.5	2.8	12.2
NW	.2	.2	1.7	1.9	.8	.9	.6	.7	.5	.6	.3	.3	.1	.1	4.2	4.7	14.4
NNW	.1	.1	1.6	1.8	.8	.9	1.0	1.1	1.0	1.2	.5	.6	.2	.2	5.3	6.0	16.3
CALM	.5	.6													.5	.6	
TOTAL	2.7	3.1	33.0	37.2	16.2	18.3	15.8	17.8	14.6	16.4	5.5	6.1	1.1	1.2	88.9	100	14.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1-48-1978

CLASS 1 / NIGHT

STATION NUMBER: 13985

NO. OBS.: 36805

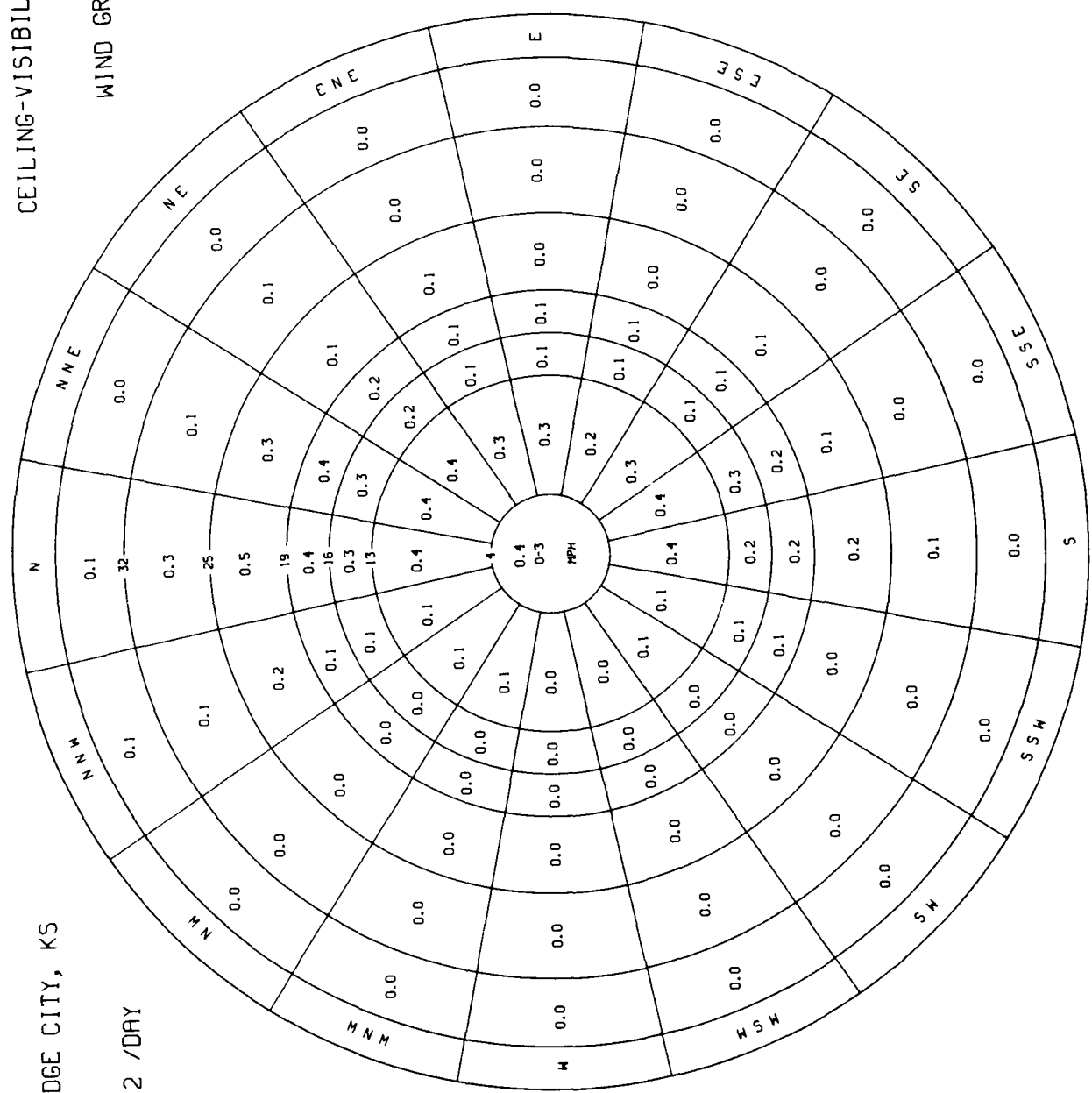
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.1	2.6	2.9	1.2	1.3	1.1	1.2	.9	1.0	.4	.4	.1	.1	6.2	7.0	14.4
NNE	.1	.2	2.1	2.4	.8	.9	.7	.8	.6	.6	.3	.3	.1	.1	4.7	5.3	13.5
NE	.2	.2	2.0	2.3	.7	.8	.5	.6	.3	.3	.1	.1	.0	.0	3.8	4.2	12.1
ENE	.1	.1	1.3	1.5	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.3	2.5	10.9
E	.2	.2	1.9	2.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.1	9.8
ESE	.1	.1	1.6	1.8	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.5	2.9	10.8
SE	.1	.1	3.0	3.4	1.2	1.4	.7	.8	.3	.3	.0	.1	.0	.0	5.4	6.1	11.8
SSE	.1	.1	5.4	6.1	2.7	3.0	2.0	2.3	1.1	1.2	.2	.2	.0	.0	11.6	13.1	13.0
S	.1	.1	5.9	6.7	3.9	4.4	3.7	4.1	2.2	2.5	.5	.6	.0	.1	16.4	18.5	14.4
SSW	.1	.1	3.5	3.9	1.6	1.8	1.0	1.1	.6	.7	.1	.1	.0	.0	6.9	7.7	12.8
SW	.1	.1	3.9	4.4	1.0	1.2	.4	.5	.1	.2	.0	.1	.0	.0	5.7	6.4	10.7
WSW	.1	.1	2.8	3.2	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.1	10.1
W	.1	.1	2.4	2.7	.5	.6	.3	.3	.2	.2	.0	.0	.0	.0	3.5	4.0	10.7
WNW	.1	.1	1.7	1.9	.6	.7	.4	.5	.1	.2	.0	.0	.0	.0	3.0	3.3	11.7
NW	.1	.1	2.5	2.8	1.0	1.2	.7	.8	.4	.4	.2	.2	.1	.1	4.9	5.5	13.0
NNW	.1	.1	2.2	2.5	.9	1.1	.8	.9	.6	.7	.2	.3	.1	.1	4.9	5.6	13.9
CALM	.5	.6													.5	.6	
TOTAL	2.4	2.7	44.9	50.6	18.0	20.3	13.2	14.8	7.7	8.6	2.2	2.5	.4	.5	88.7	100	12.6

CEILING-VISIBILITY

WIND GRAPH

DDC DODGE CITY, KS

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 2 / DAY

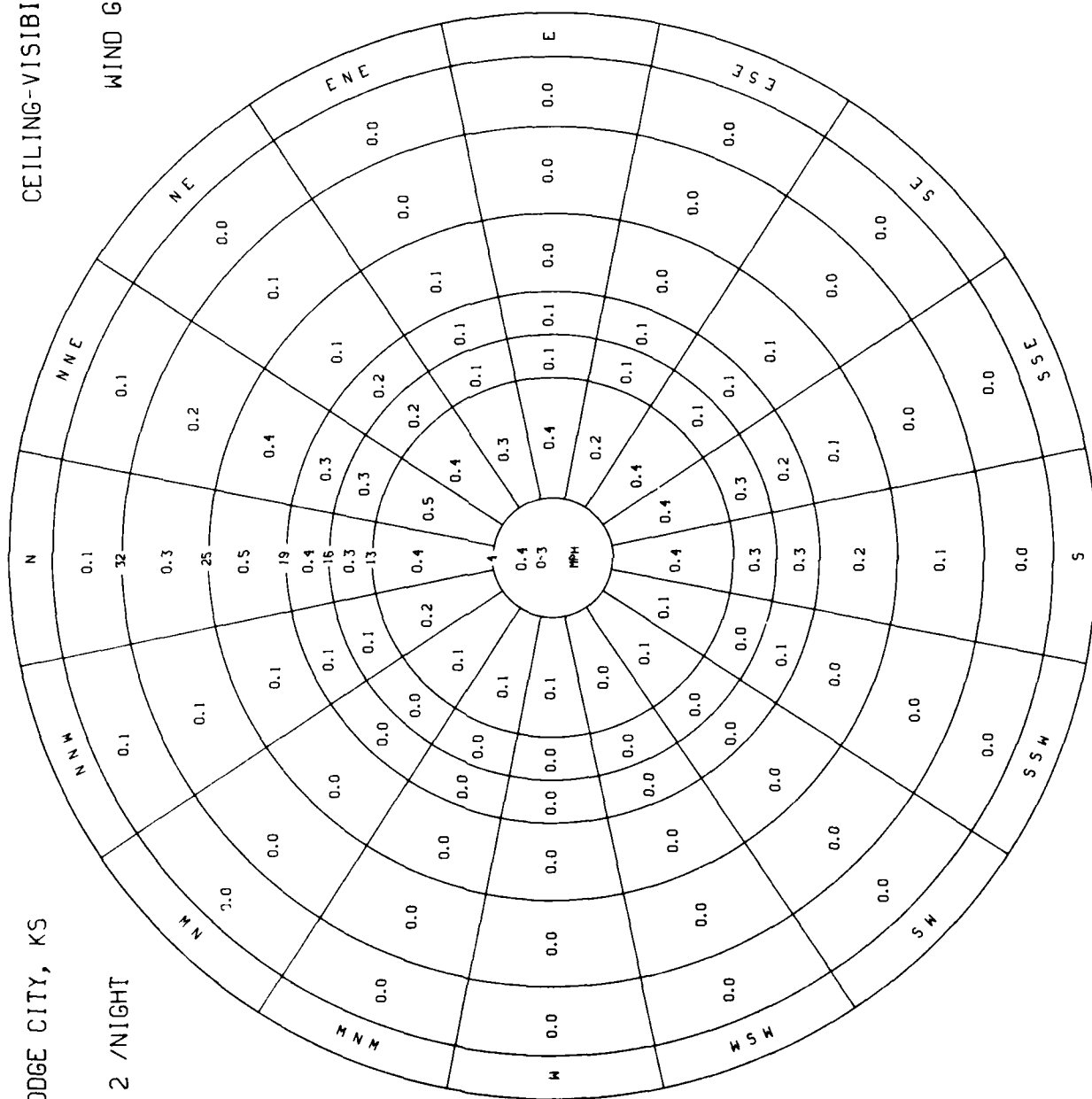
STATION NUMBER: 13985

NO. OBS.: 5447

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.1	.4	3.7	.3	2.7	.4	3.5	.5	4.8	.3	2.7	.1	1.1	2.1	18.7	18.9
NNE	.0	.1	.4	3.7	.3	2.4	.4	3.2	.3	3.0	.1	1.3	.0	.3	1.6	14.1	16.6
NE	.0	.3	.4	3.4	.2	1.8	.2	1.8	.1	1.3	.1	.7	.0	.1	1.0	9.4	14.5
ENE	.0	.2	.3	2.7	.1	1.1	.1	.6	.1	.6	.0	.1	.0	.1	.6	5.3	12.6
E	.0	.2	.3	3.0	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.5	4.8	11.1
ESE	.0	.1	.2	1.9	.1	.9	.1	.7	.0	.3	.0	.0	.0	.0	.4	3.9	12.3
SE	.0	.3	.3	3.1	.1	1.3	.1	1.0	.1	.5	.0	.2	.0	.0	.7	6.4	12.7
SSE	.0	.3	.4	3.8	.3	2.5	.2	1.8	.1	1.1	.0	.3	.0	.0	1.1	9.7	13.5
S	.0	.1	.4	3.4	.2	2.0	.2	1.9	.2	2.2	.1	.5	.0	.2	1.1	10.3	15.5
SSW	.0	.1	.1	1.3	.1	.5	.1	.6	.0	.4	.0	.2	.0	.1	.4	3.2	14.9
SW	.0	.1	.1	1.0	.0	.2	.0	.1	.0	.1	.0	.1	.0	.2	.2	1.7	14.8
WSW	.0	.1	.0	.4	.0	.1	.0	.0	.0	.1	.0	.1	.0	.1	.1	.9	14.6
W	.0	.1	.0	.4	.0	.1	.0	.0	.0	.1	.0	.2	.0	.1	.1	.9	15.1
WNW	.0	.1	.1	.6	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	.9	14.7
NW	.0	.1	.1	.8	.0	.3	.0	.2	.0	.3	.0	.3	.0	.4	.3	2.3	18.9
NNW	.0	.1	.1	1.2	.1	.8	.1	.9	.2	1.7	.1	1.0	.1	.8	.7	6.5	20.4
CALM	.1	.9													.1	.9	
TOTAL	.4	3.2	3.8	34.3	1.9	17.5	1.8	16.6	1.9	16.8	.9	7.9	.4	3.7	11.1	100	15.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DDC DODGE CITY, KS

CLASS 2 / NIGHT

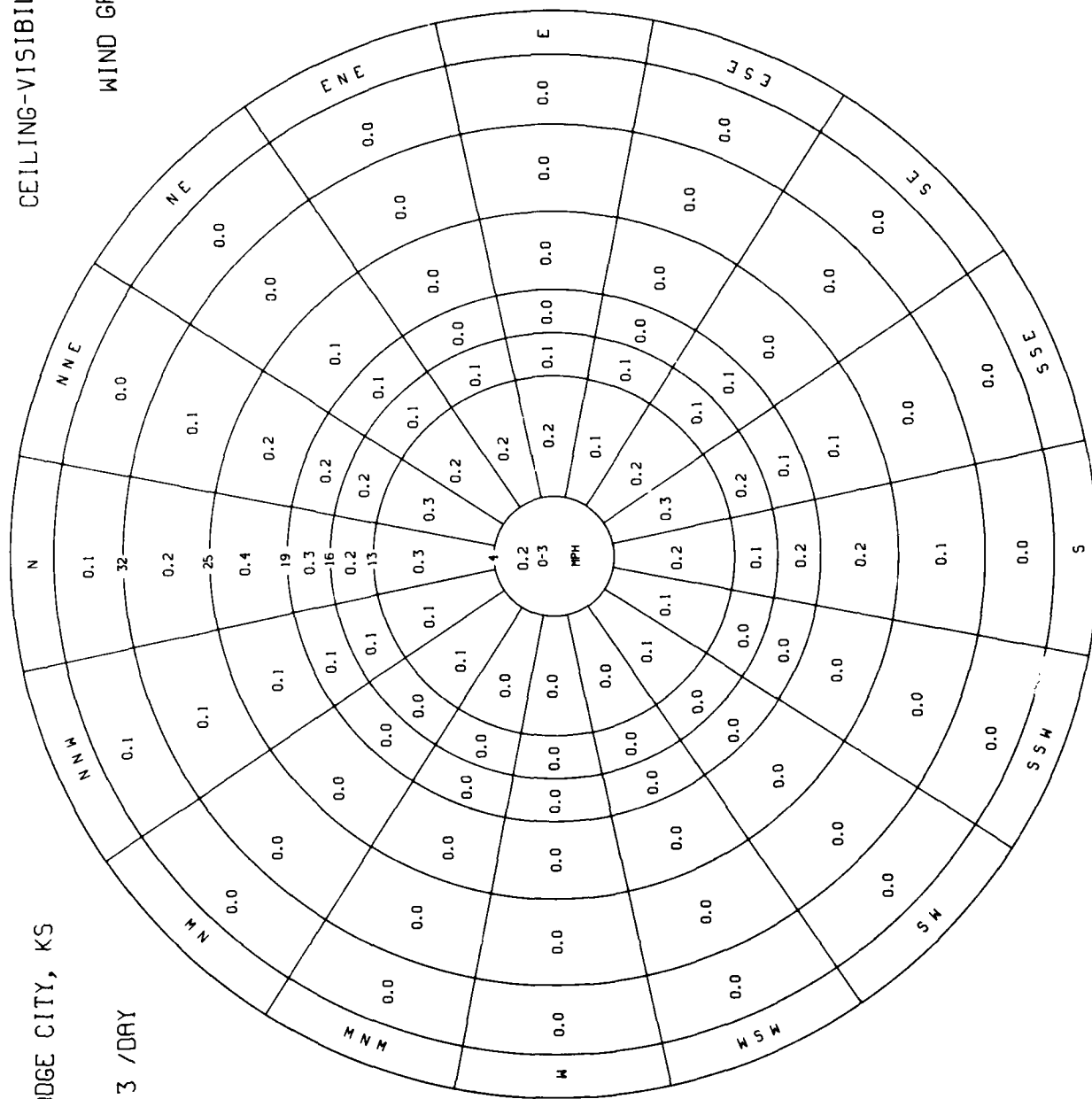
NO. OBS.: 4700

STATION NUMBER: 13985

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.2	.4	3.9	.3	2.3	.4	3.3	.5	4.4	.3	2.4	.1	1.1	2.0	17.5	18.4
NNE	.0	.1	.5	4.2	.3	2.4	.3	2.8	.4	3.1	.2	1.5	.1	.5	1.7	14.6	15.8
NE	.0	.3	.4	3.9	.2	2.0	.2	1.7	.1	1.1	.1	.6	.0	.1	1.1	9.8	.0
ENE	.0	.2	.3	2.5	.1	1.0	.1	.8	.1	.5	.0	.2	.0	.0	.6	5.3	12.9
E	.0	.2	.4	3.4	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.6	5.6	10.9
ESE	.0	.2	.2	2.1	.1	.9	.1	.5	.0	.1	.0	.1	.0	.0	.5	4.1	11.4
SE	.0	.2	.4	3.7	.1	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.7	6.4	12.0
SSE	.0	.2	.4	3.7	.3	2.4	.2	1.7	.1	1.1	.0	.3	.0	.0	1.1	9.4	13.6
S	.0	.2	.4	3.6	.3	2.3	.3	2.3	.2	1.8	.1	.6	.0	.1	1.2	10.9	14.9
SSW	.0	.1	.1	1.2	.0	.3	.1	.5	.0	.3	.0	.1	.0	.0	.3	2.6	13.0
SW	.0	.1	.1	1.1	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.2	1.5	9.4
WSW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	8.4
W	.0	.1	.1	.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	1.1	1.0	10.2
WNW	.0	.1	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.1	1.0	11.7
NW	.0	.2	.1	.9	.0	.3	.0	.3	.0	.3	.0	.3	.0	.3	.3	2.6	16.8
NNW	.0	.1	.2	1.8	.1	.9	.1	.9	.1	1.0	.1	1.0	.1	.6	.7	6.3	18.2
CALM	.1	.9													.1	.9	
TOTAL	.4	3.7	4.3	37.6	1.9	17.2	1.9	16.7	1.7	14.8	.8	7.1	.3	2.9	11.3	100	14.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 3 / DAY

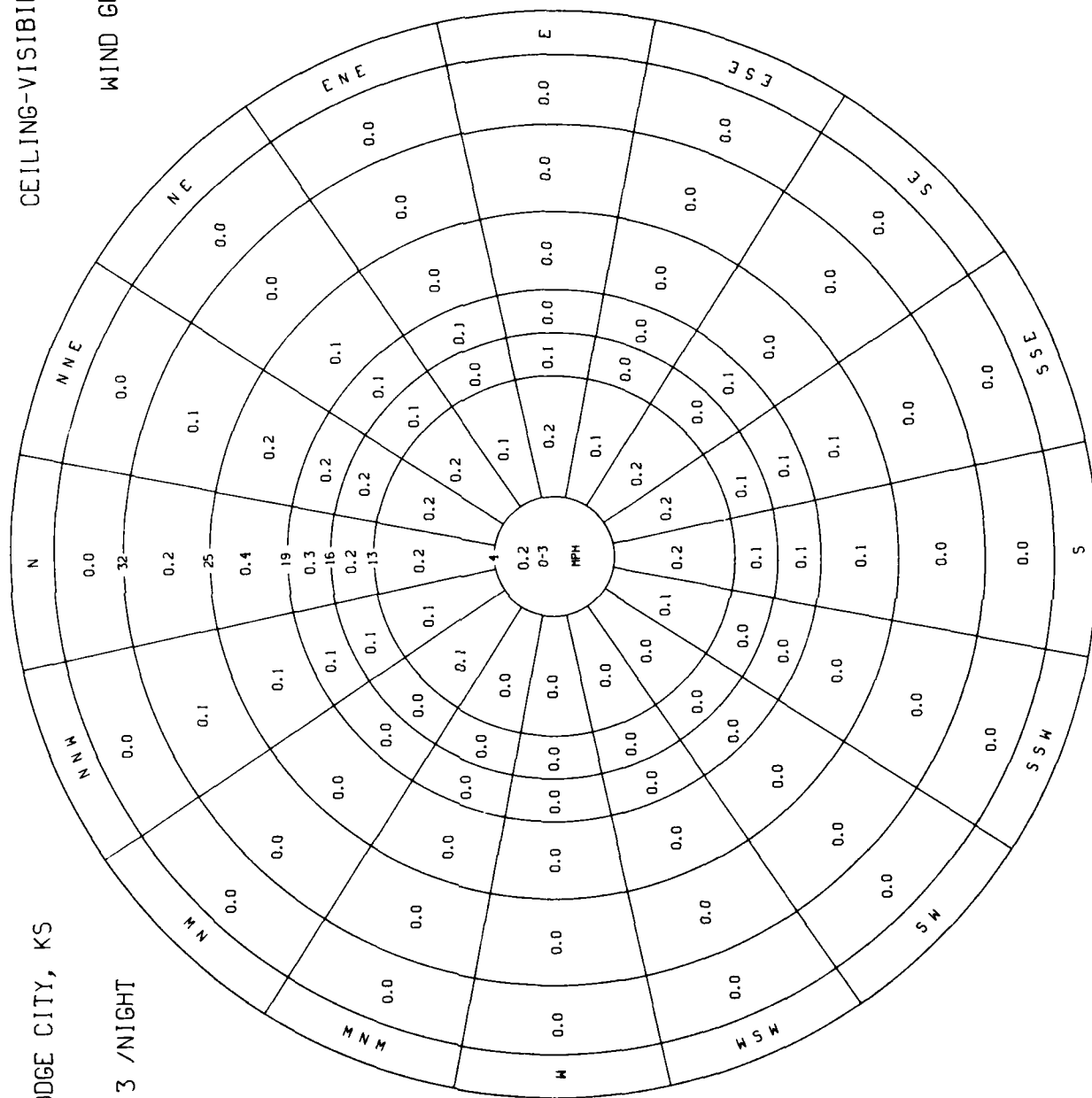
STATION NUMBER: 13985

NO. OBS.: 3590

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
															C	D	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.3	3.9	.2	3.1	.3	4.0	.4	5.3	.2	3.0	.1	.8	1.5	20.2	18.4
NNE	.0	.1	.3	3.6	.2	2.4	.2	3.2	.2	3.0	.1	1.2	.0	.3	1.0	13.8	16.7
NE	.0	.2	.2	2.8	.1	1.7	.1	1.7	.1	1.2	.0	.4	.0	.1	.6	8.1	14.5
ENE	.0	.1	.2	2.3	.1	.9	.0	.4	.0	.5	.0	.1	.0	.0	.3	4.4	12.4
E	.0	.1	.2	2.7	.1	.7	.0	.6	.0	.2	.0	.1	.0	.0	.3	4.4	11.0
ESE	.0	.2	.1	1.6	.1	1.1	.0	.6	.0	.2	.0	.0	.0	.0	.3	3.8	12.2
SE	.0	.3	.2	2.9	.1	1.3	.1	.9	.0	.6	.0	.3	.0	.0	.4	6.1	13.0
SSE	.0	.3	.3	3.8	.2	2.5	.1	1.8	.1	1.1	.0	.4	.0	.0	.7	9.8	13.7
S	.0	.1	.2	3.2	.1	1.8	.2	2.1	.2	2.5	.1	.7	.0	.3	.8	10.7	16.4
SSW	.0	.1	.1	1.4	.0	.5	.0	.6	.0	.5	.0	.3	.0	.2	.3	3.6	15.8
SW	.0	.1	.1	.8	.0	.2	.0	.1	.0	.1	.0	.1	.0	.2	.1	1.5	15.8
WSW	.0	.1	.0	.4	.0	.2	.0	.0	.0	.1	.0	.2	.0	.0	.1	.9	14.8
W	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	.0	.2	.0	.1	.1	.8	16.4
WNW	.0	.1	.0	.6	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	.9	15.8
NW	.0	.1	.1	.9	.0	.4	.0	.3	.0	.3	.0	.3	.0	.3	.2	2.7	17.4
NNW	.0	.1	.1	1.4	.1	.9	.1	1.2	.1	1.9	.1	1.1	.1	.8	.5	7.4	19.9
CALM	.1	.8													.1	.8	
TOTAL	.2	2.8	2.4	32.5	1.3	17.8	1.3	17.5	1.3	17.8	.6	8.4	.2	3.3	7.3	100	15.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 3 / NIGHT

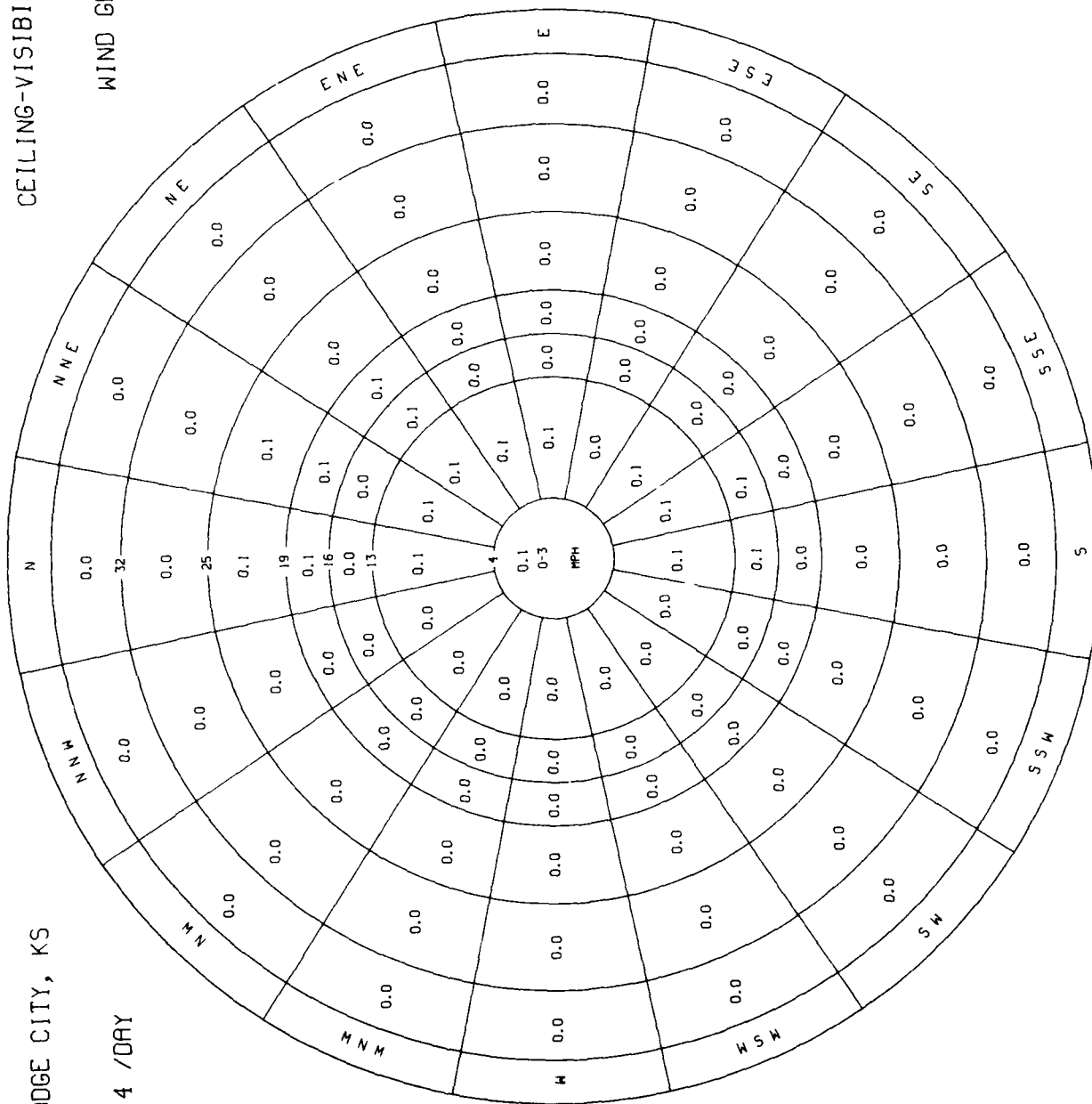
STATION NUMBER: 13985

NO. OBS.: 2494

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.2	4.0	.2	2.7	.3	4.2	.4	6.1	.2	3.2	.0	.7	1.3 21.1
NNE	.0	.0	.2	3.4	.2	3.0	.2	3.2	.2	4.0	.1	1.8	.0	.6	1.0 16.1
NE	.0	.3	.2	3.4	.1	2.2	.1	1.8	.1	1.0	.0	.6	.0	.1	.6 9.4
ENE	.0	.2	.1	2.2	.0	.6	.1	.8	.0	.5	.0	.2	.0	.0	.3 4.6
E	.0	.3	.2	2.6	.1	1.0	.0	.5	.0	.1	.0	.0	.0	.0	.3 4.5
ESE	.0	.2	.1	1.6	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.2 3.2
SE	.0	.2	.2	2.8	.0	.7	.1	.9	.0	.6	.0	.1	.0	.0	.3 5.3
SSE	.0	.1	.2	3.5	.1	2.2	.1	1.4	.1	1.2	.0	.2	.0	.0	.5 8.5
S	.0	.2	.2	2.7	.1	1.8	.1	2.2	.1	2.3	.0	.6	.0	.2	.6 10.0
SSW	.0	.0	.1	.9	.0	.3	.0	.6	.0	.4	.0	.1	.0	.0	.1 2.4
SW	.0	.0	.0	.6	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1 .9
WSW	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
W	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1 .8
WNW	.0	.0	.0	.6	.0	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1 1.0
NW	.0	.2	.1	1.0	.0	.3	.0	.4	.0	.4	.0	.4	.0	.3	.2 3.0
NNW	.0	.1	.1	1.8	.1	1.2	.1	1.4	.1	1.4	.1	1.3	.0	.5	.5 7.7
CALM	.0	.7													.0 .7
TOTAL	.2	3.0	1.9	32.2	1.0	16.9	1.1	18.2	1.1	18.5	.5	8.8	.1	2.5	6.0 100
															15.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 13985

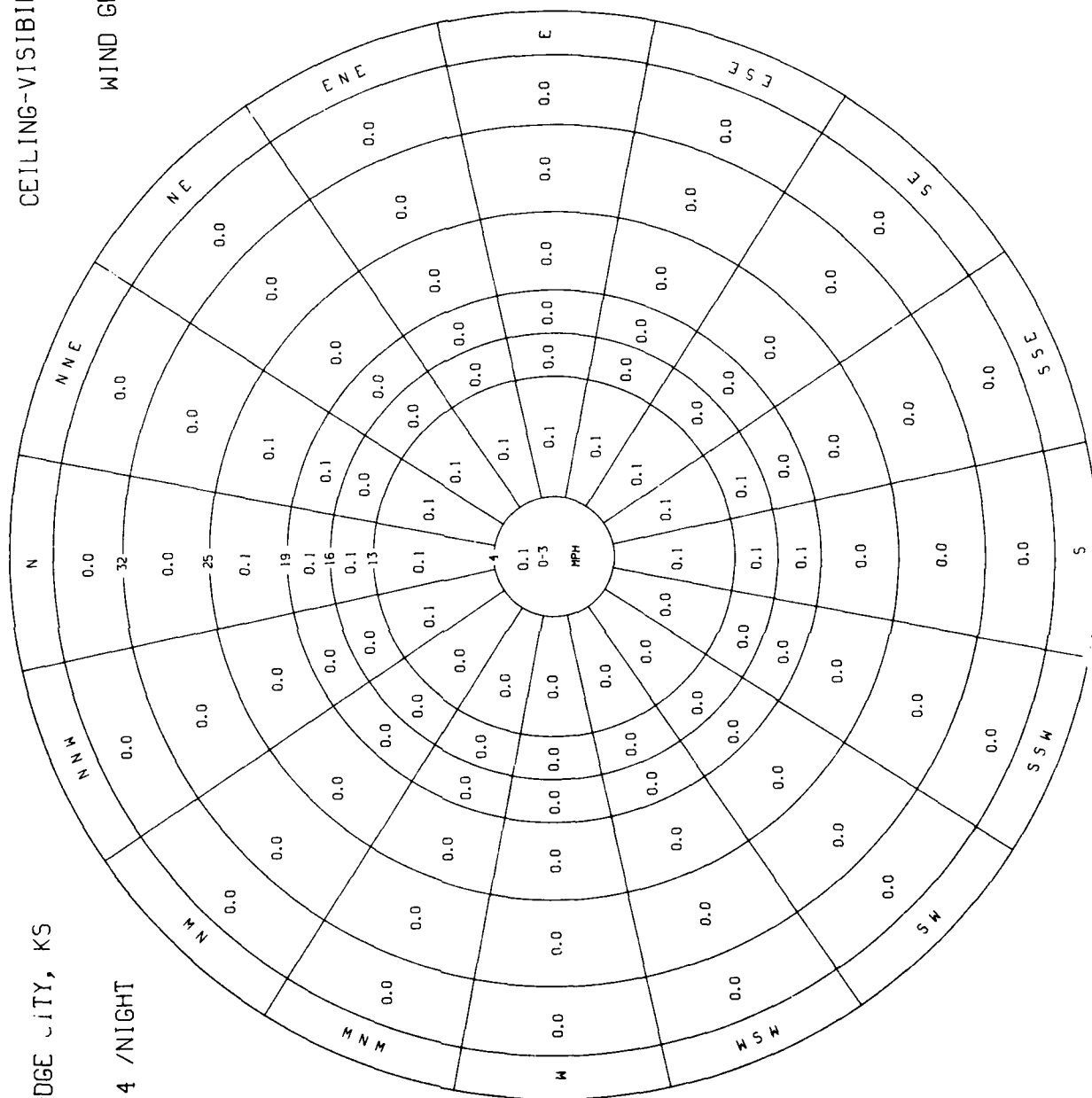
NO. OBS.: 1047

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.1	.1	3.2	.0	2.3	.1	2.5	.1	3.7	.0	2.3	.0	.9	.3	14.9	18.8
NNE	.0	.3	.1	4.3	.0	2.1	.1	3.6	.1	4.0	.0	1.3	.0	.3	.3	16.0	16.6
NE	.0	.7	.1	3.6	.1	2.5	.1	2.8	.0	1.7	.0	1.1	.0	.1	.3	12.5	14.9
ENE	.0	.2	.1	3.0	.0	1.2	.0	1.1	.0	.8	.0	.2	.0	.0	.1	6.4	13.2
E	.0	.2	.1	3.0	.0	1.1	.0	.4	.0	1.1	.0	.0	.0	.1	.1	5.8	12.9
ESE	.0	.0	.0	2.3	.0	.4	.0	1.1	.0	.5	.0	.1	.0	.0	.1	4.4	13.3
SE	.0	.3	.1	3.3	.0	1.5	.0	1.1	.0	.5	.0	.3	.0	.0	.2	7.1	12.8
SSE	.0	.2	.1	3.0	.1	2.6	.0	1.7	.0	1.1	.0	.1	.0	.0	.2	8.7	13.6
S	.0	.3	.1	3.2	.1	2.6	.0	1.7	.0	1.6	.0	.1	.0	.0	.2	9.6	13.9
SSW	.0	.0	.0	1.1	.0	.2	.0	.7	.0	.4	.0	.0	.0	.0	.0	2.3	13.5
SW	.0	.2	.0	1.5	.0	.4	.0	.0	.0	.1	.0	.1	.0	.3	.1	2.6	13.8
WSW	.0	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.1	.0	.3	.0	1.1	17.1
W	.0	.1	.0	.9	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	1.3	12.9
WNW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.7	10.9
NW	.0	.1	.0	.5	.0	.0	.0	.0	.0	.1	.0	.1	.0	.3	.0	1.1	21.3
NNW	.0	.0	.0	.8	.0	1.0	.0	.3	.0	1.4	.0	1.1	.0	.6	.1	5.1	21.2
CALM	.0	.6													.0	.6	
TOTAL	.1	3.2	.7	34.6	.4	18.1	.4	17.0	.4	17.2	.2	7.1	.1	2.9	2.1	100	15.3

ODC DODGE CITY, KS

WIND GRAPH

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EDS DODGE CITY, KS

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 13985

NO. OBS.: 1036

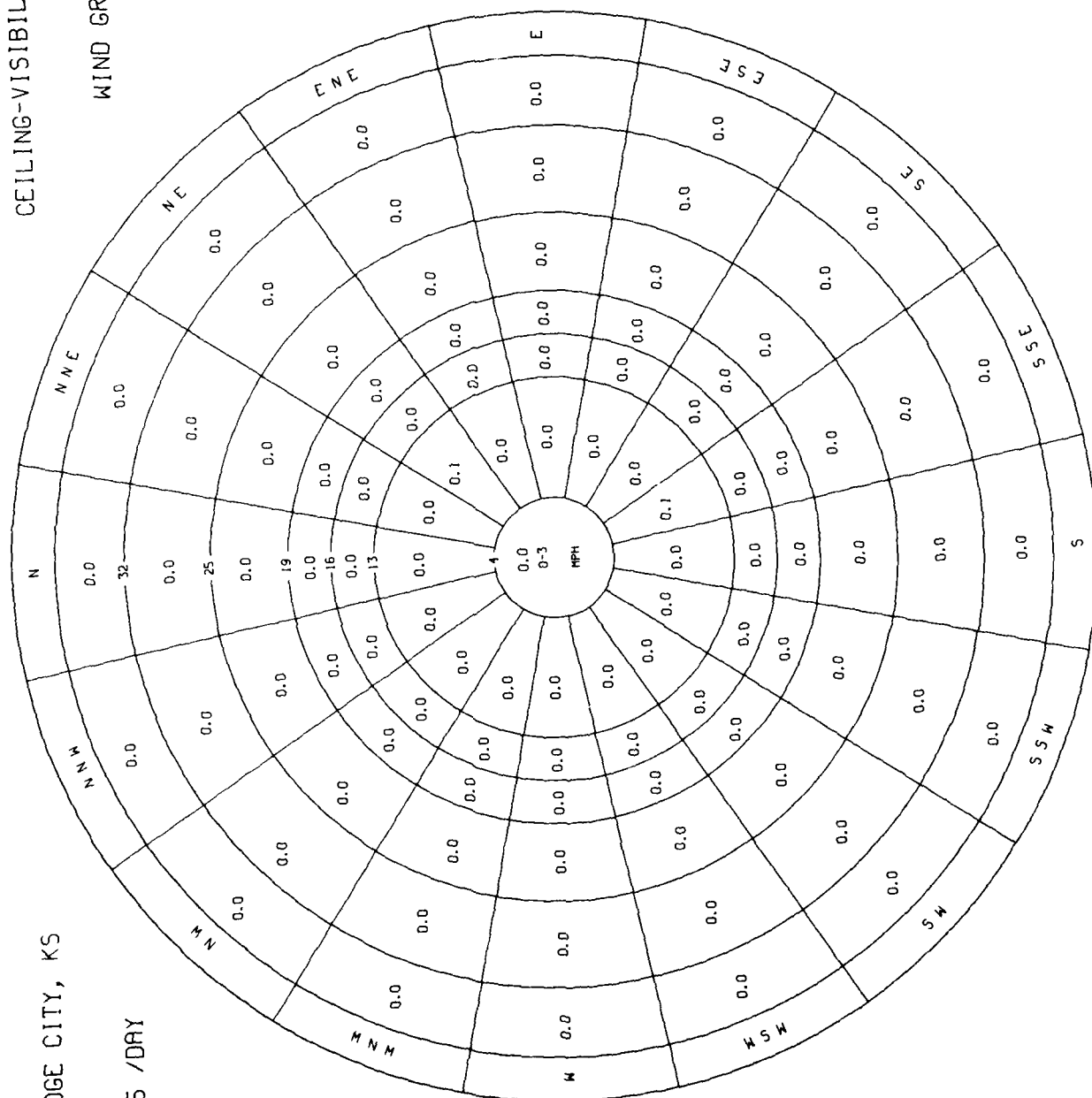
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.1	4.5	.1	2.0	.1	3.1	.1	3.6	.0	1.7	.0	.8	.4	15.7	17.4
NNE	.0	.2	.1	4.8	.0	1.9	.1	2.1	.1	2.7	.0	1.5	.0	.4	.3	13.7	16.1
NE	.0	.1	.1	4.0	.0	1.7	.0	1.7	.0	1.6	.0	.4	.0	.4	.2	9.9	14.9
ENE	.0	.0	.1	2.0	.0	1.4	.0	.7	.0	.9	.0	.2	.0	.0	.1	5.1	13.8
E	.0	.2	.1	3.7	.0	.6	.0	.7	.0	.5	.0	.4	.0	.0	.1	6.0	11.5
ESE	.0	.4	.1	2.1	.0	.9	.0	.6	.0	.2	.0	.0	.0	.0	.1	4.2	10.8
SE	.0	.2	.1	3.2	.0	1.4	.0	1.4	.0	.4	.0	.1	.0	.1	.2	6.9	13.0
SSE	.0	.4	.1	4.0	.1	2.2	.0	1.9	.0	1.5	.0	.5	.0	.0	.3	10.5	13.8
S	.0	.3	.1	4.3	.1	2.7	.1	3.0	.0	1.5	.0	.6	.0	.0	.3	12.5	14.4
SSW	.0	.3	.0	1.3	.0	.3	.0	.4	.0	.3	.0	.0	.0	.0	.1	2.5	11.5
SW	.0	.2	.0	1.5	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.1	2.1	9.0
WSW	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.6	11.2
W	.0	.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	7.5
WNW	.0	.2	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	1.0	11.1
NW	.0	.4	.0	.9	.0	.3	.0	.2	.0	.4	.0	.0	.0	.2	.1	2.3	13.1
NNW	.0	.1	.1	2.0	.0	.8	.0	.4	.0	1.1	.0	.7	.0	.3	.1	5.3	16.5
CALM	.0	.8													.0	.8	
TOTAL	.1	3.9	1.0	40.0	.4	16.6	.4	16.5	.4	14.7	.2	6.2	.1	2.2	2.5	100	14.3

CEILING-VISIBILITY

WIND GRAPH

DDC DODGE CITY, KS

CLASS 5 /DAY



ANNUAL

STATION NAME: ODC DODGE CITY, KS

PERIOD: 1948-1978

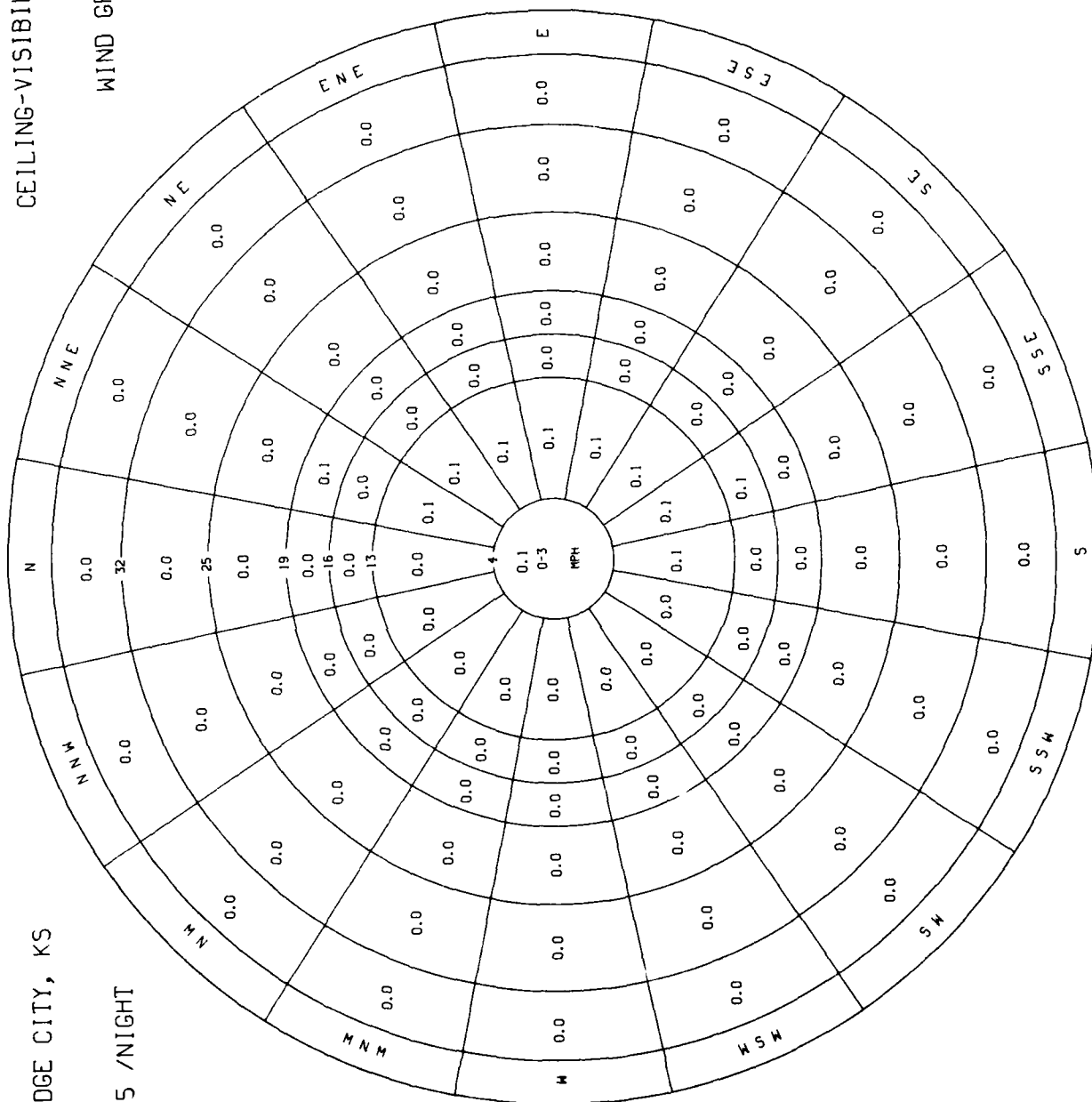
CLASS 5 / DAY

STATION NUMBER: 13985

NO.	OBS.:	494
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D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.0	4.3	.0	2.6	.0	1.8	.0	4.9	.0	2.2	.0	1.4	.2	17.4	18.9
NNE	.0	.2	.0	3.0	.0	3.0	.0	2.8	.0	2.0	.0	2.0	.0	.2	.1	13.4	17.2
NE	.0	.6	.1	5.9	.0	1.2	.0	1.2	.0	1.6	.0	1.4	.0	.0	.1	11.9	13.8
ENE	.0	.4	.0	4.5	.0	1.4	.0	1.0	.0	.8	.0	.0	.0	.4	.1	8.5	12.8
E	.0	.8	.0	4.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	5.9	8.4
ESE	.0	.0	.0	2.0	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	2.8	11.3
SE	.0	.4	.0	3.6	.0	1.6	.0	1.0	.0	.2	.0	.0	.0	.0	.1	6.9	11.4
SSE	.0	.2	.1	5.5	.0	2.2	.0	1.6	.0	.2	.0	.2	.0	.0	.1	9.9	12.1
S	.0	.0	.0	4.5	.0	3.0	.0	.8	.0	1.2	.0	.2	.0	.2	.1	9.9	13.9
SSW	.0	.2	.0	1.4	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	10.5
SW	.0	.0	.0	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.4	10.1
WSW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	7.0
W	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0	.8	17.7
WNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.8	18.2
NW	.0	.0	.0	.4	.0	.2	.0	.0	.0	.2	.0	.4	.0	.8	.0	2.0	25.0
NNW	.0	.2	.0	.4	.0	.4	.0	.6	.0	.8	.0	.8	.0	1.0	.0	4.3	23.2
CALM	.0	1.2													.0	1.2	
TOTAL	0	4.5	.4	41.9	.2	17.6	.1	11.9	.1	12.3	.1	7.5	.0	4.3	1.0	100	14.7

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 5 / NIGHT

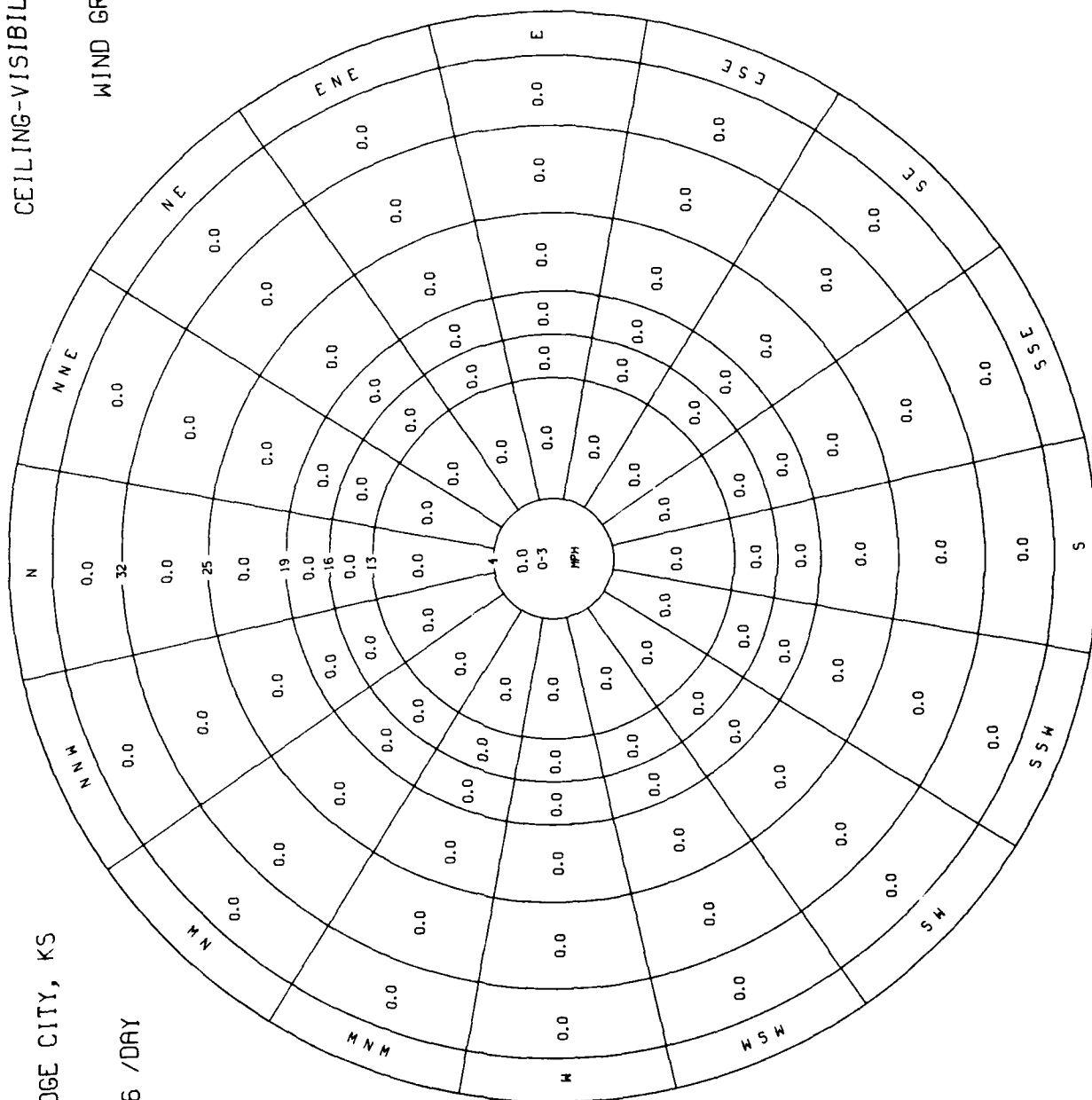
STATION NUMBER: 13985

NO. OBS.: 678

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
																C	D
N	.0	.3	.0	2.8	.0	1.5	.0	2.1	.0	1.8	.0	1.3	.0	.9	.2	10.6	17.7
NNE	.0	.3	.1	5.0	.0	2.2	.1	3.2	.0	2.4	.0	1.0	.0	.6	.2	14.7	15.8
NE	.0	.7	.1	4.3	.0	1.6	.0	2.2	.0	.6	.0	.6	.0	.0	.2	10.0	12.9
ENE	.0	.3	.1	3.2	.0	1.5	.0	1.5	.0	.4	.0	.3	.0	.0	.1	7.2	12.8
E	.0	.1	.1	4.9	.0	1.3	.0	1.2	.0	.0	.0	.0	.0	.0	.1	7.5	10.5
ESE	.0	.0	.1	4.0	.0	1.8	.0	1.2	.0	.1	.0	.1	.0	.1	.1	7.4	12.1
SE	.0	.1	.1	4.6	.0	2.2	.0	.3	.0	.1	.0	.0	.0	.0	.1	7.4	10.7
SSE	.0	.4	.1	3.7	.1	3.2	.0	2.1	.0	.7	.0	.3	.0	.0	.2	10.5	13.5
S	.0	.0	.1	4.7	.0	2.8	.0	2.1	.0	1.2	.0	.4	.0	.1	.2	11.4	13.9
SSW	.0	.1	.0	1.6	.0	.3	.0	.4	.0	.4	.0	.1	.0	.0	.1	3.1	12.0
SW	.0	.0	.0	1.2	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	1.8	11.6
WSW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.3
W	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.9	12.5
WNW	.0	.1	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.6	9.7
NW	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.0	.4	.0	.1	.0	1.5	17.5
NNW	.0	.3	.0	1.5	.0	.7	.0	.1	.0	.3	.0	.7	.0	.4	.1	4.1	16.9
CALM	.0	.9													.0	.9	
TOTAL	.1	4.1	.7	43.2	.3	19.6	.3	16.7	.1	8.4	.1	5.5	.0	2.5	1.6	100	13.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 13985

NO. OBS.: 316

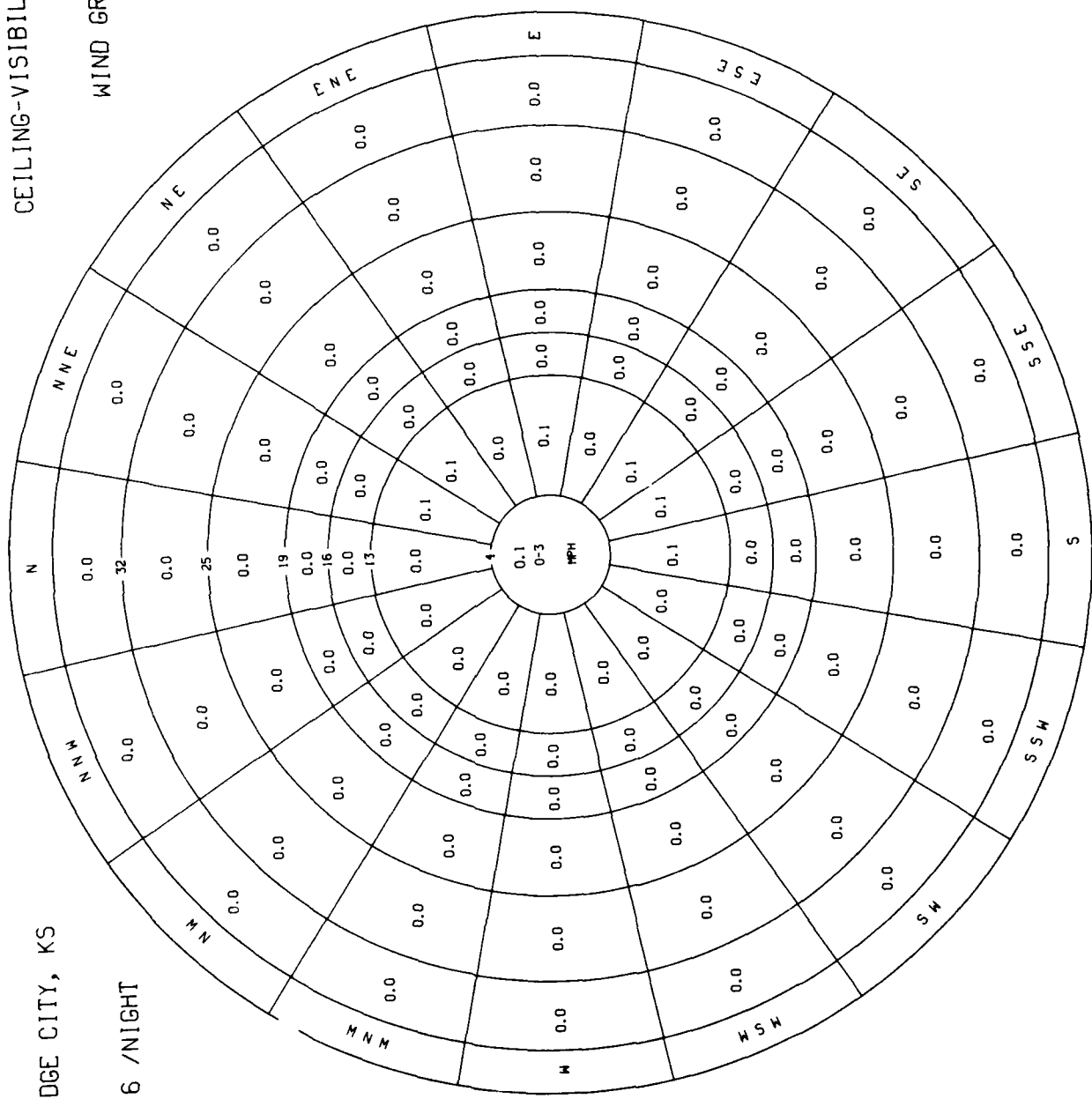
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.0	3.2	.0	.6	.0	2.5	.0	2.2	.0	1.6	.0	6.0	.1	16.5	25.6
NNE	.0	.3	.0	4.4	.0	1.9	.0	1.9	.0	2.2	.0	1.6	.0	.0	.1	12.3	15.8
NE	.0	.0	.0	5.7	.0	1.6	.0	.9	.0	.6	.0	.6	.0	.6	.1	10.1	14.4
ENE	.0	.3	.0	3.5	.0	1.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	5.7	11.1
E	.0	.3	.0	3.2	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	5.1	10.9
ESE	.0	.0	.0	3.2	.0	.9	.0	.3	.0	.6	.0	.0	.0	.0	.0	5.1	11.3
SE	.0	.9	.0	3.8	.0	.3	.0	.9	.0	.9	.0	.0	.0	.0	.0	7.0	11.0
SSE	.0	.3	.0	4.4	.0	1.6	.0	2.2	.0	1.9	.0	.3	.0	.0	.1	10.8	13.7
S	.0	.3	.0	4.1	.0	1.6	.0	1.6	.0	1.6	.0	.0	.0	.0	.1	9.2	12.9
SSW	.0	.3	.0	1.3	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	3.5	11.1
SW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.9	15.2
WSW	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.3
W	.0	.3	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.9	9.7
WNW	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.7
NW	.0	.0	.0	.6	.0	.3	.0	.0	.0	.3	.0	.9	.0	.6	.0	2.8	25.3
NNW	.0	.3	.0	1.6	.0	.3	.0	.0	.0	.6	.0	.3	.0	2.2	.0	5.4	22.8
CALM	.0	1.9													.0	1.9	
TOTAL	.0	6.3	.3	42.1	.1	12.3	.1	12.0	.1	12.0	.0	5.4	.1	9.8	.6	100	15.6

CEILING-VISIBILITY

WIND GRAPH

DDC DODGE CITY, KS

CLASS 6 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DDC DODGE CITY, KS

PERIOD: 1948-1978

CLASS 6 / NIGHT

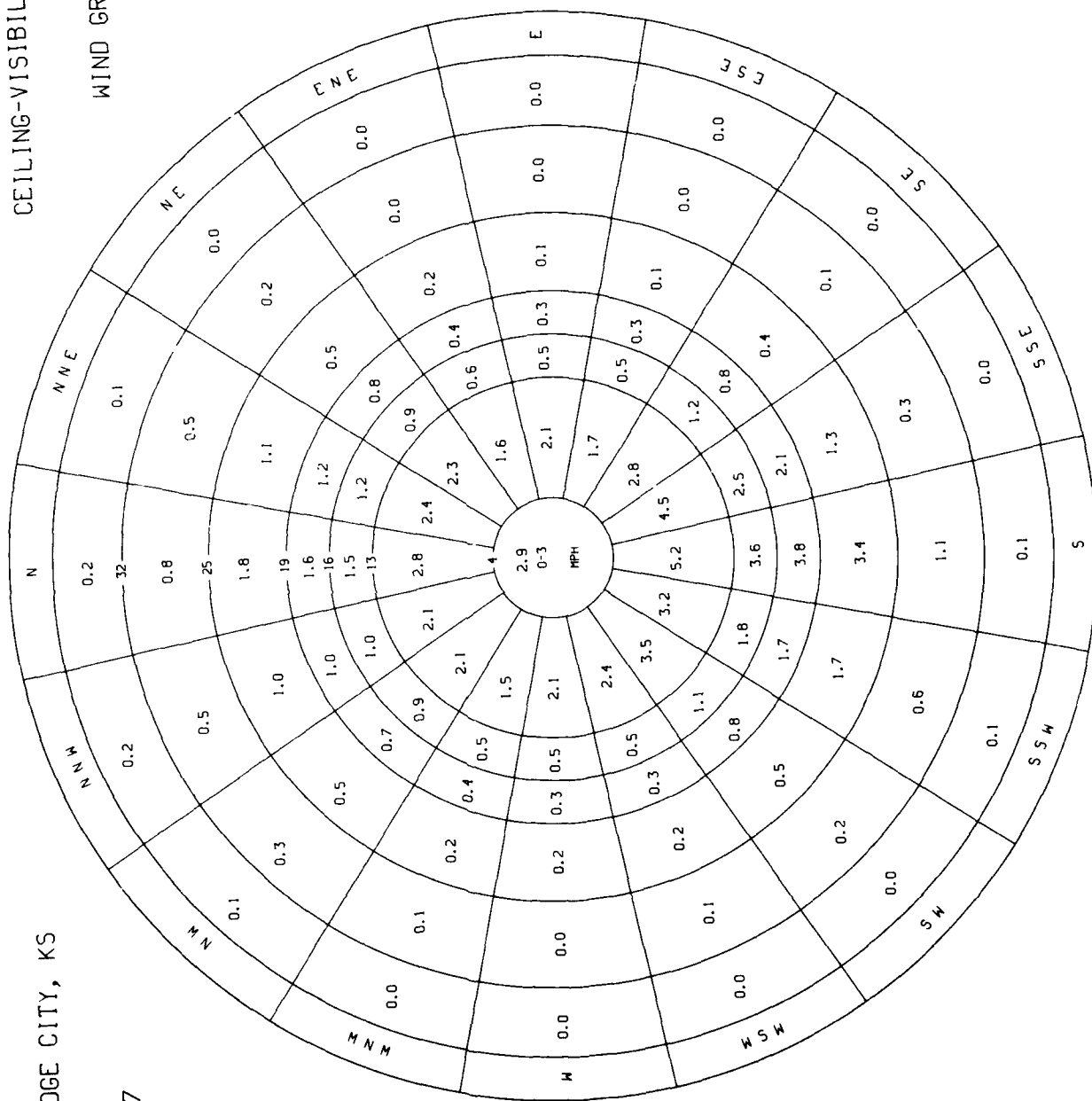
STATION NUMBER: 13985

NO. OBS.: 492

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	3.9	.0	1.8	.0	.4	.0	1.0	.0	.8	.0	3.9	.1 12.6
NNE	.0	.0	.1	5.7	.0	1.0	.0	1.0	.0	.6	.0	.2	.0	.2	.1 8.7
NE	.0	.4	.1	5.9	.0	2.0	.0	.8	.0	1.2	.0	.6	.0	.2	.1 11.2
ENE	.0	.0	.0	3.9	.0	2.0	.0	.2	.0	.0	.0	.4	.0	.0	.1 6.5
E	.0	.2	.1	4.3	.0	1.6	.0	.8	.0	.4	.0	.2	.0	.0	.1 7.5
ESE	.0	.4	.0	2.4	.0	.6	.0	.0	.0	.2	.0	.2	.0	.0	.0 3.9
SE	.0	.2	.1	7.9	.0	1.0	.0	.8	.0	.4	.0	.0	.0	.0	.1 10.4
SSE	.0	.2	.1	4.5	.0	2.4	.0	2.4	.0	.6	.0	.0	.0	.0	.1 10.2
S	.0	.6	.1	4.5	.0	2.8	.0	2.2	.0	.8	.0	.4	.0	.0	.1 11.4
SSW	.0	.4	.0	1.8	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.8
SW	.0	.4	.0	2.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 3.3
WSW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
W	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
WNW	.0	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0 1.0
NW	.0	.0	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0 2.0
NNW	.0	.2	.0	1.4	.0	.2	.0	.2	.0	.2	.0	.2	.0	1.8	.1 4.3
CALM	.0	1.6													.0 1.6
TOTAL	.1	6.1	.6	52.2	.2	16.7	.1	9.6	.1	5.5	.0	3.0	.1	6.9	1.2 100
															13.5

CEILING-VISIBILITY

WIND GRAPH

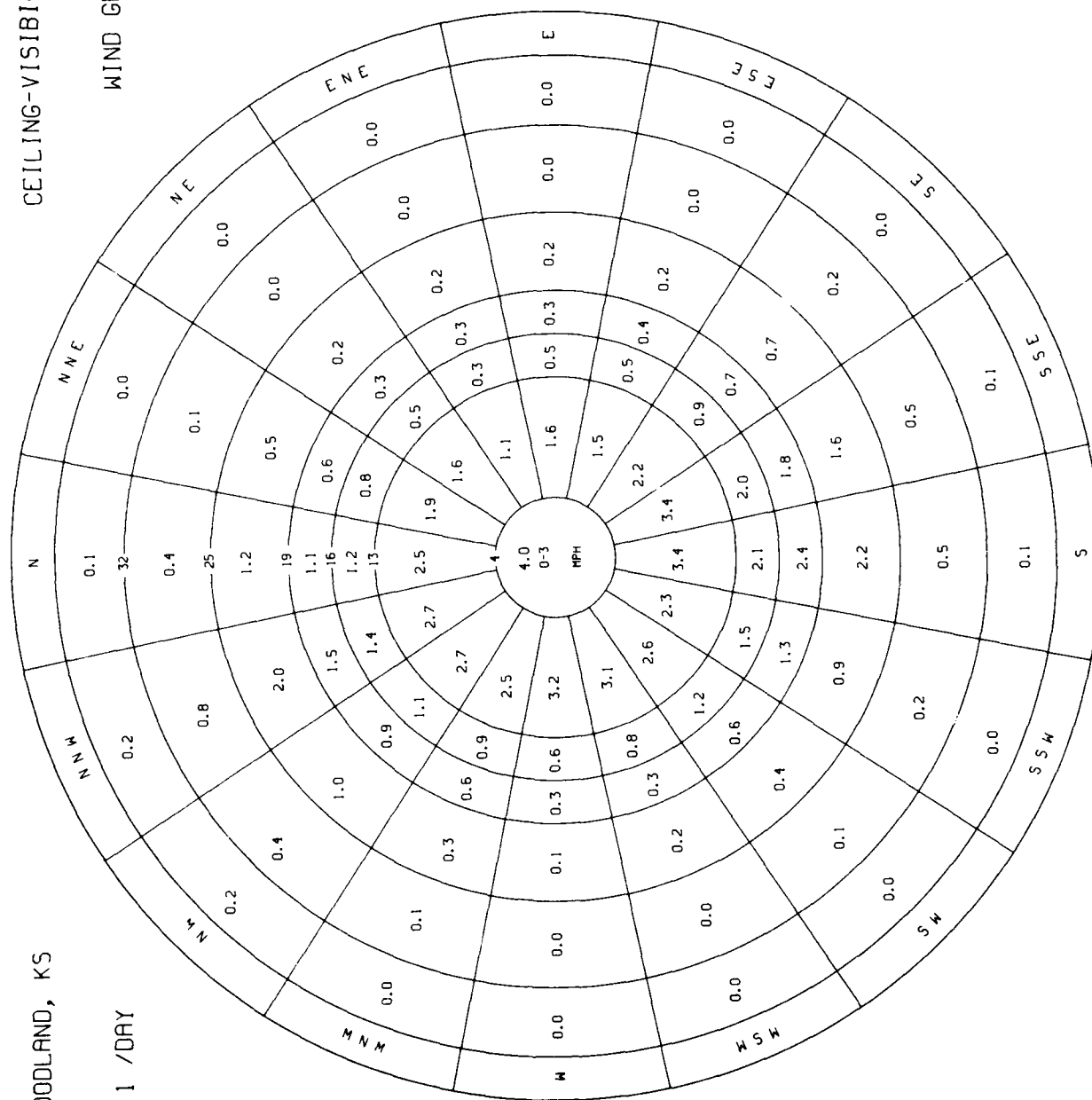


CEILING-VISIBILITY

WIND GRAPH

GLO GOODLAND, KS

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GLD GOODLAND, KS

CLASS 1 / DAY

NO. OBS.: 44099

STATION NUMBER: 23065

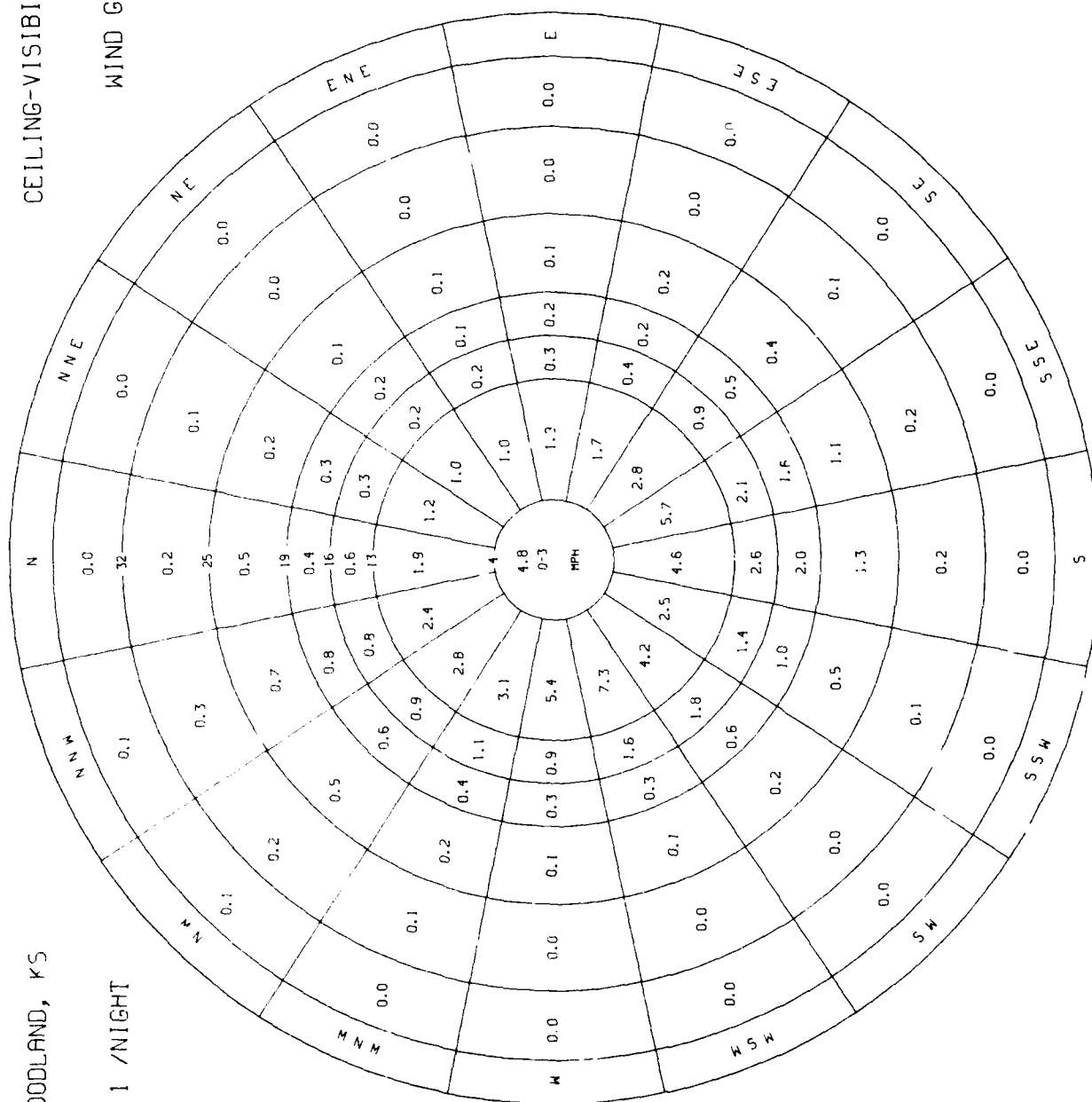
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.2	2.5	2.8	1.2	1.4	1.1	1.3	1.2	1.3	.4	.4	.1	.1	6.5 7.4
NNE	.2	.2	1.9	2.1	.8	.9	.6	.7	.5	.6	.1	.1	.0	.0	4.1 4.6
NENE	.2	.2	1.6	1.8	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	2.9 3.2
ENE	.1	.1	1.1	1.3	.3	.4	.3	.3	.2	.2	.0	.0	.0	.0	2.0 2.2
E	.1	.1	1.6	1.8	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	2.7 3.0
ESE	.1	.1	1.5	1.7	.5	.6	.4	.4	.2	.3	.0	.0	.0	.0	2.8 3.1
SE	.1	.1	2.2	2.4	.9	1.1	.7	.8	.7	.8	.2	.2	.0	.0	4.8 5.5
SSE	.1	.2	3.4	3.9	2.0	2.2	1.8	2.0	1.6	1.8	.5	.5	.1	.1	9.5 10.8
S	.1	.1	3.4	3.8	2.1	2.4	2.4	2.7	2.2	2.5	.5	.6	.1	.1	10.8 12.3
SSW	.1	.1	2.3	2.7	1.5	1.7	1.3	1.5	.9	1.0	.2	.2	.0	.0	6.3 7.2
SW	.2	.2	2.6	3.0	1.2	1.3	.6	.7	.4	.4	.1	.1	.0	.0	5.0 5.7
WSW	.2	.2	3.1	3.6	.8	.9	.3	.4	.2	.2	.0	.0	.0	.0	4.7 5.3
W	.2	.2	3.2	3.7	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	4.5 5.1
WNW	.2	.2	2.5	2.9	.9	1.0	.6	.6	.3	.3	.1	.1	.0	.1	4.6 5.2
NW	.2	.3	2.7	3.1	1.1	1.2	.9	1.1	1.0	1.1	.4	.5	.2	.2	6.5 7.4
NNW	.1	.2	2.7	3.1	1.4	1.6	1.5	1.8	2.0	2.3	.8	.9	.2	.3	8.8 10.0
CALM	1.7	1.9													1.7 1.9
TOTAL	4.0	4.5	38.4	43.6	16.3	18.5	13.5	15.3	11.7	13.2	3.5	3.9	.8	.9	88.2 100

CEILING-VISIBILITY

WIND GRAPH

GLD GOODLAND, KS

CLASS 1 /NIGHT



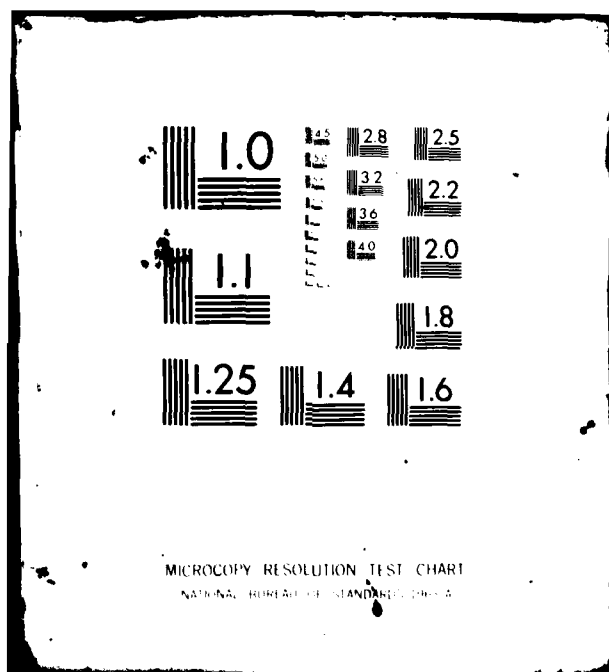
F/B 4/2

DOT-FA79WAI-057

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3. 1. 1.

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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 1 / NIGHT

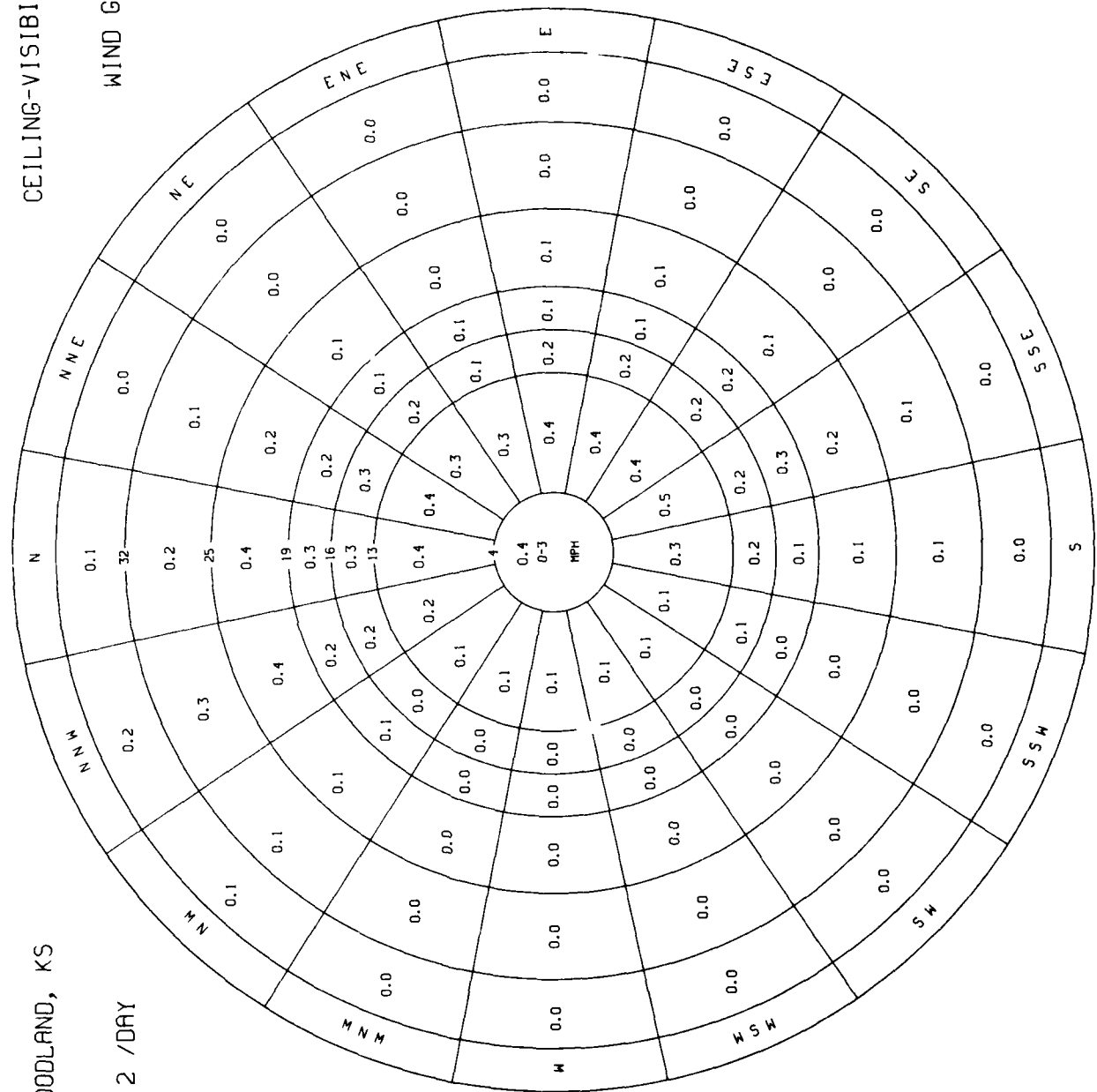
STATION NUMBER: 23065

NO. OBS.: 35709

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.2	.2	1.9	2.1	.6	.6	.4	.5	.5	.5	.2	.2	.0	.0	3.7	4.2	12.8
NNE	.1	.1	1.2	1.4	.3	.4	.3	.3	.2	.2	.1	.1	.0	.0	2.2	2.5	11.7
NE	.2	.2	1.0	1.1	.2	.3	.2	.2	.1	.2	.0	.0	.0	.0	1.7	2.0	10.6
ENE	.1	.1	1.0	1.2	.2	.2	.1	.2	.1	.1	.0	.0	.0	.0	1.6	1.8	10.2
E	.1	.1	1.9	2.1	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.0	9.9
ESE	.1	.1	1.7	1.9	.4	.4	.2	.2	.2	.2	.0	.0	.0	.0	2.6	3.0	10.7
SE	.2	.2	2.8	3.1	.9	1.0	.5	.6	.4	.4	.1	.1	.0	.0	4.8	5.5	11.8
SSE	.1	.1	5.7	6.5	2.1	2.4	1.6	1.8	1.1	1.2	.2	.2	.0	.0	10.8	12.3	12.7
S	.2	.2	4.6	5.3	2.6	2.9	2.0	2.3	1.3	1.5	.2	.2	.0	.0	10.9	12.4	13.6
SSW	.2	.2	2.5	2.8	1.4	1.5	1.0	1.2	.5	.5	.1	.1	.0	.0	5.6	6.3	12.7
SW	.2	.2	4.2	4.8	1.8	2.1	.6	.7	.2	.2	.0	.0	.0	.0	7.1	8.0	11.3
WSW	.2	.2	7.3	8.3	1.6	1.8	.3	.3	.1	.1	.0	.0	.0	.0	9.6	10.9	10.2
W	.2	.3	5.4	6.1	.9	1.0	.3	.3	.1	.1	.0	.0	.0	.0	6.9	7.8	9.6
WNW	.2	.3	3.1	3.6	1.1	1.2	.4	.5	.2	.2	.1	.1	.0	.0	5.2	5.9	10.9
NW	.2	.3	2.8	3.2	.9	1.0	.6	.7	.5	.6	.2	.2	.1	.1	5.4	6.1	12.5
NNW	.2	.2	2.4	2.7	.8	.9	.8	.9	.7	.8	.3	.4	.1	.1	5.3	6.0	13.8
CALM	2.1	2.4													2.1	2.4	
TOTAL	4.8	5.4	49.6	56.3	16.1	18.3	9.6	10.9	6.1	7.0	1.5	1.7	.3	.4	88.0	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

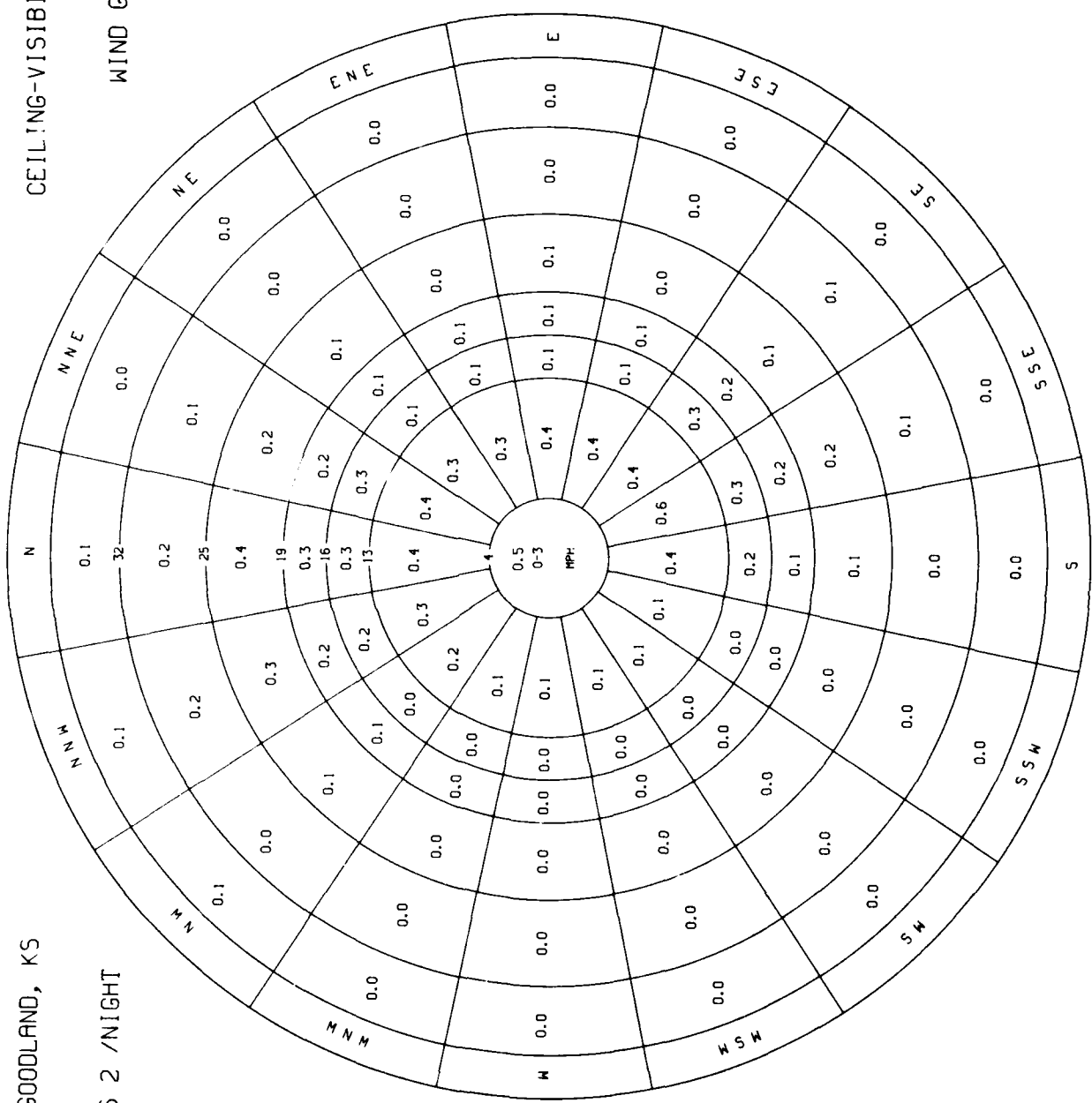
CLASS 2 / DAY

STATION NUMBER: 23065

NO. OBS.: 5888

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.4	3.7	.3	2.6	.3	2.8	.4	3.5	.2	1.7	.1	.6	1.8 15.0
NNE	.0	.1	.4	3.4	.3	2.6	.2	1.9	.2	1.5	.1	.4	.0	.0	1.2 10.0
NNE	.0	.1	.3	2.8	.2	1.6	.1	1.2	.1	.8	.0	.2	.0	.0	.8 6.7
ENE	.0	.1	.3	2.3	.1	1.0	.1	.7	.0	.4	.0	.1	.0	.0	.5 4.6
E	.0	.2	.4	3.2	.2	1.4	.1	.7	.1	.5	.0	.1	.0	.0	.7 6.1
ESE	.0	.1	.4	3.0	.2	1.4	.1	.7	.1	.6	.0	.2	.0	.0	.7 6.0
SE	.0	.1	.4	3.4	.2	1.7	.2	1.4	.1	1.1	.0	.4	.0	.1	.9 8.1
SSE	.0	.1	.5	4.4	.2	2.1	.3	2.2	.2	1.6	.1	.5	.0	.1	1.3 11.0
S	.0	.1	.3	2.3	.2	1.5	.1	1.2	.1	1.0	.1	.6	.0	.3	.8 6.9
SSW	.0	.1	.1	1.0	.1	.4	.0	.4	.0	.2	.0	.2	.0	.0	.3 2.3
SW	.0	.1	.1	.5	.0	.2	.0	.1	.0	.1	.0	.1	.0	.1	.1 1.1
WSW	.0	.1	.1	.6	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.1 .9
W	.0	.1	.1	.5	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1 .8
WNW	.0	.0	.1	.6	.0	.1	.0	.1	.0	.2	.0	.1	.0	.3	.2 1.3
NW	.0	.1	.1	1.0	.0	.4	.1	.7	.1	.9	.1	.7	.1	1.2	.6 4.9
NNW	.0	.1	.2	1.9	.2	1.6	.2	1.9	.4	3.5	.3	2.3	.2	1.4	1.5 12.7
CALM	.2	1.6													.2 1.6
TOTAL	.4	3.2	4.1	34.6	2.2	18.6	1.9	16.0	1.9	15.9	.9	7.5	.5	4.1	11.8 100

GLD GOODLAND, KS
 CLASS 2 /NIGHT
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 2 / NIGHT

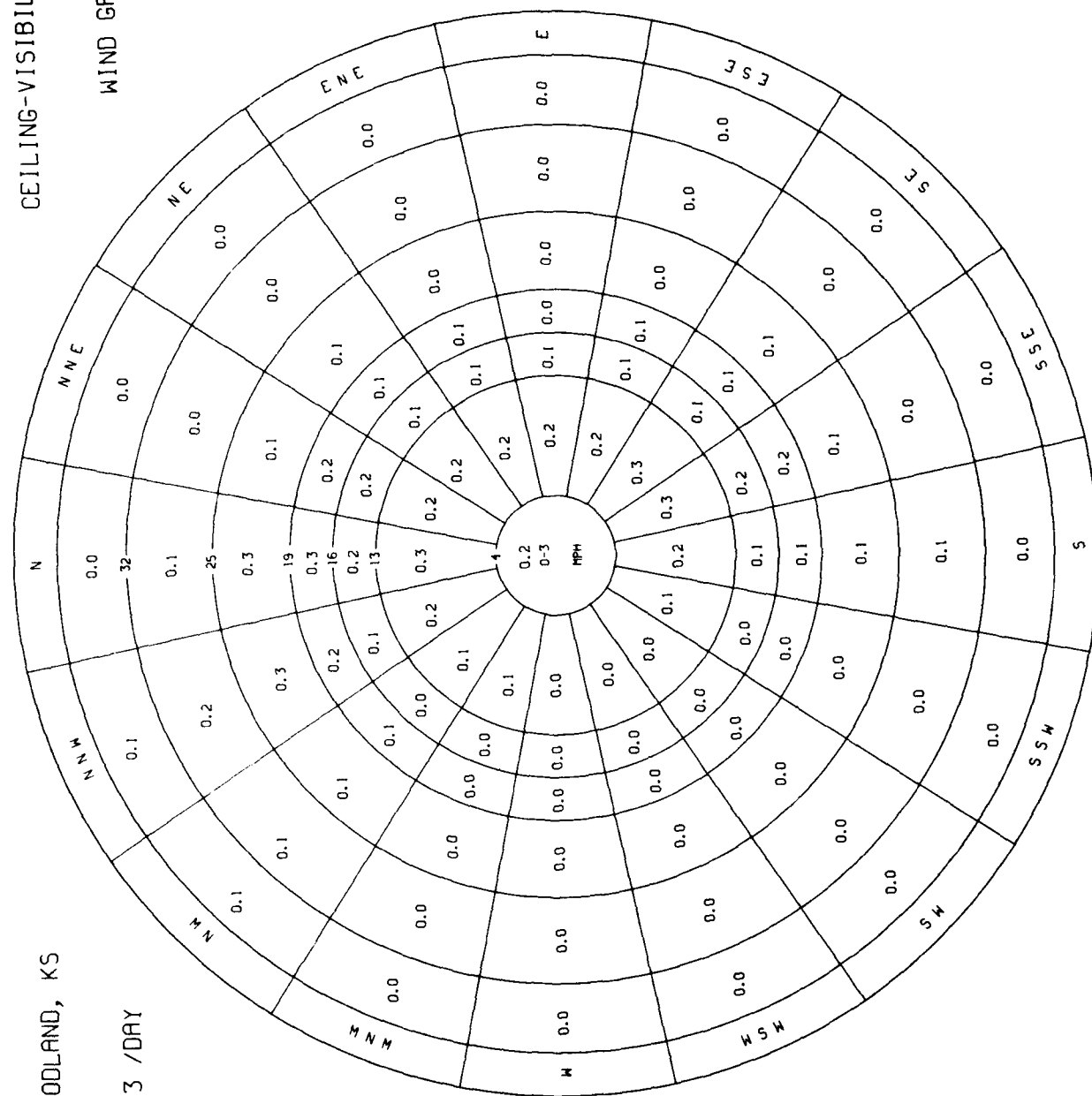
STATION NUMBER: 23065

NO. OBS.: 4863

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.4	3.7	.3	2.5	.3	2.6	.4	3.2	.2	1.4	.1	.5	1.7	14.1	16.9
NNE	.0	.2	.4	3.2	.3	2.1	.2	1.5	.2	1.4	.1	.5	.0	.0	1.1	8.9	14.3
NE	.0	.2	.3	2.9	.1	1.1	.1	1.0	.1	.5	.0	.2	.0	.0	.7	5.9	12.6
ENE	.0	.2	.3	2.5	.1	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.6	5.1	11.9
E	.0	.3	.4	3.6	.1	1.2	.1	.7	.1	.5	.0	.1	.0	.0	.8	6.4	11.8
ESE	.0	.2	.4	3.5	.1	1.2	.1	.8	.0	.3	.0	.1	.0	.0	.7	6.1	11.8
SE	.0	.2	.4	3.6	.3	2.2	.2	1.6	.1	1.0	.1	.5	.0	.1	1.1	9.2	14.1
SSE	.0	.0	.6	5.0	.3	2.2	.2	1.9	.2	1.4	.1	.5	.0	.1	1.3	11.1	13.8
S	.0	.2	.4	3.2	.2	1.4	.1	1.2	.1	.8	.0	.2	.0	.1	.8	7.0	13.2
SSW	.0	.1	.1	1.1	.0	.4	.0	.2	.0	.4	.0	.0	.0	.0	.3	2.3	12.7
SW	.0	.1	.1	1.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.5	9.8
WSW	.0	.1	.1	.8	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.1	9.7
W	.0	.1	.1	.6	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.9	9.9
WNW	.0	.1	.1	.8	.0	.2	.0	.0	.0	.1	.0	.2	.0	.2	.2	1.7	14.6
NW	.0	.1	.2	1.5	.0	.3	.1	.4	.1	.7	.0	.4	.1	.9	.5	4.3	19.9
NNW	.0	.1	.3	2.9	.2	2.1	.2	1.9	.3	2.8	.2	2.0	.1	1.0	1.5	12.7	18.8
CALM	.2	1.7													.2	1.7	
TOTAL	.5	4.2	4.8	39.7	2.2	18.4	1.8	15.0	1.6	13.6	.7	6.0	.4	3.0	12.0	100	14.4

CEILING-VISIBILITY

WIND GRAPH



GLD GOODLAND, KS

CLASS 3 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GLD GOODLAND, KS

CLASS 3 / DAY

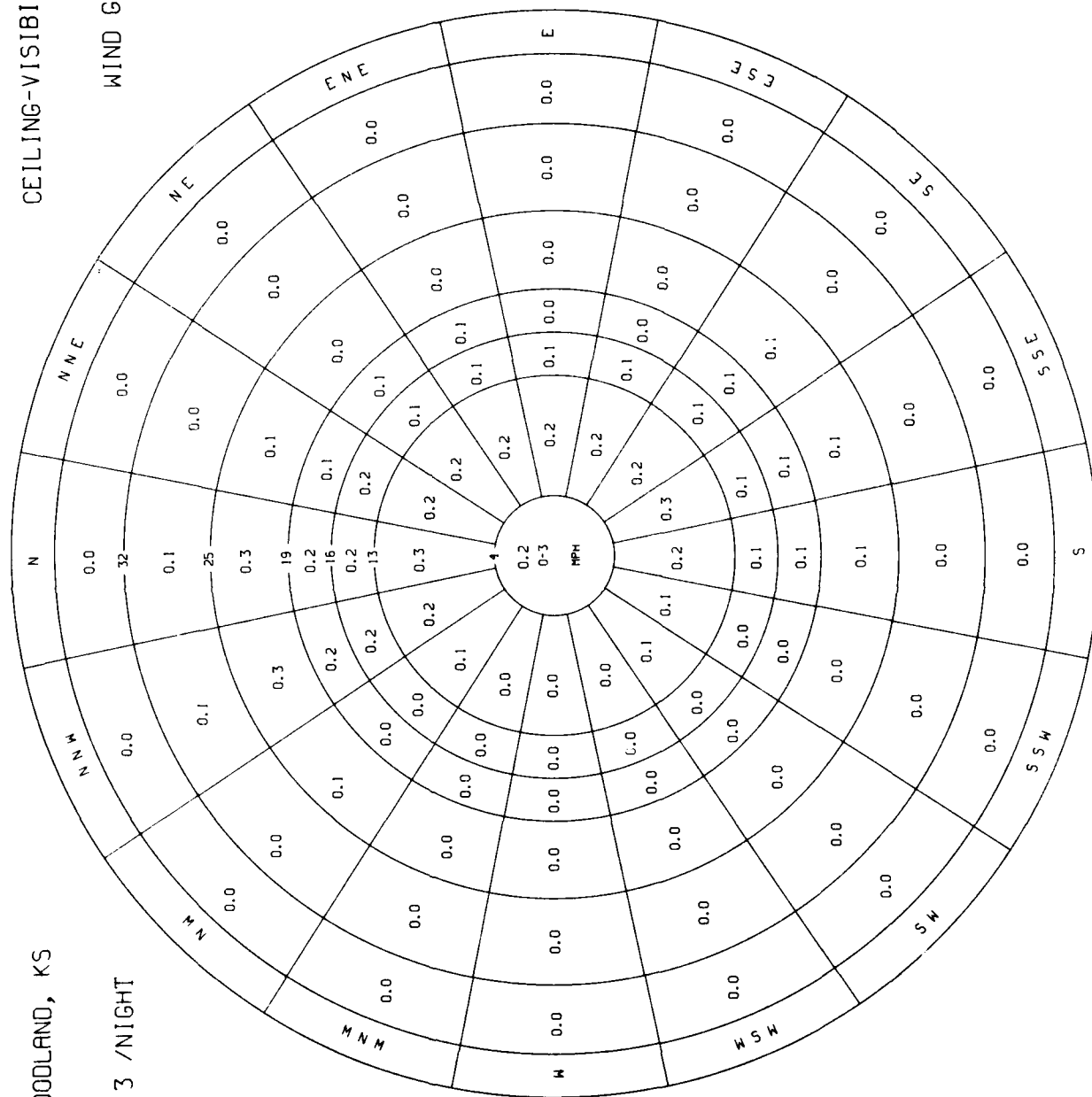
NO. OBS.: 3963

STATION NUMBER: 23065

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.3	3.7	.2	3.0	.3	3.2	.3	3.8	.1	1.5	.0	.5	1.3 15.8
NNE	.0	.1	.2	3.1	.2	3.0	.2	2.0	.1	1.8	.0	.3	.0	.0	.8 10.3
NNE	.0	.1	.2	2.9	.1	1.6	.1	1.1	.1	.8	.0	.2	.0	.0	.5 6.6
ENE	.0	.1	.2	2.3	.1	1.0	.1	.8	.0	.3	.0	.1	.0	.0	.4 4.5
E	.0	.2	.2	2.9	.1	1.2	.0	.6	.0	.5	.0	.1	.0	.0	.4 5.4
ESE	.0	.1	.2	3.0	.1	1.4	.1	.7	.0	.6	.0	.2	.0	.0	.5 6.0
SE	.0	.1	.3	3.4	.1	1.6	.1	1.3	.1	1.1	.0	.4	.0	.1	.6 7.9
SSE	.0	.1	.3	4.1	.2	2.1	.2	2.0	.1	1.7	.0	.5	.0	.1	.8 10.6
S	.0	.1	.2	2.1	.1	1.6	.1	1.2	.1	1.2	.1	.7	.0	.3	.6 7.2
SSW	.0	.1	.1	1.1	.0	.4	.0	.5	.0	.2	.0	.2	.0	.1	.2 2.5
SW	.0	.1	.0	.6	.0	.2	.0	.1	.0	.2	.0	.1	.0	.1	.1 1.2
WSW	.0	.1	.0	.5	.0	.1	.0	.1	.0	.0	.0	.1	.0	.1	.1 .8
W	.0	.1	.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1 .7
WNW	.0	.0	.1	.7	.0	.1	.0	.2	.0	.1	.0	.1	.0	.2	.1 1.3
NW	.0	.1	.1	1.1	.0	.4	.1	.8	.1	1.1	.1	.6	.1	.7	.4 4.7
NNW	.0	.1	.2	1.9	.1	1.7	.2	2.3	.3	4.1	.2	2.2	.1	.8	1.0 13.2
CALM	.1	1.3													.1 1.3
TOTAL	.2	2.8	2.7	33.9	1.5	19.4	1.3	16.7	1.4	17.4	.6	7.1	.2	2.8	7.9 100
															15.4

GLD GOODLAND, KS

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLO GOODLAND, KS

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 23065

NO. OBS.: 2830

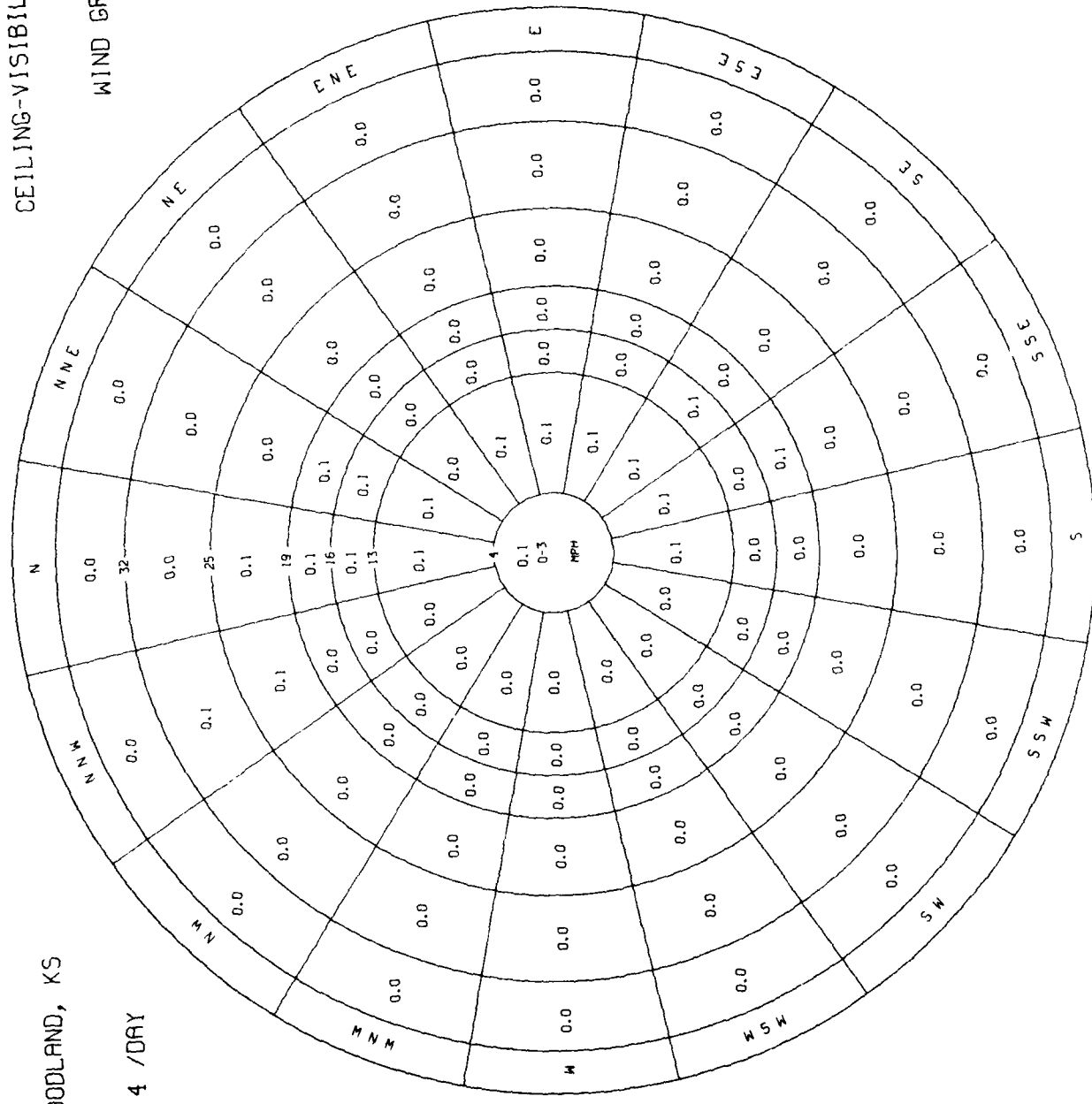
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.3	3.7	.2	3.0	.2	3.4	.3	3.7	.1	1.3	.0	.4	1.1	15.7	16.7
NNE	.0	.1	.2	3.3	.2	2.4	.1	2.1	.1	1.7	.0	.6	.0	.1	.7	10.2	14.9
NE	.0	.2	.2	3.2	.1	1.4	.1	1.1	.0	.6	.0	.2	.0	.0	.5	6.7	12.8
ENE	.0	.2	.2	2.3	.1	1.2	.1	1.0	.0	.5	.0	.1	.0	.0	.4	5.2	12.5
E	.0	.2	.2	3.0	.1	1.0	.0	.5	.0	.4	.0	.1	.0	.0	.4	5.3	11.7
ESE	.0	.2	.2	3.0	.1	1.2	.0	.7	.0	.5	.0	.1	.0	.0	.4	5.7	12.2
SE	.0	.2	.2	2.7	.1	2.1	.1	1.4	.1	.9	.0	.4	.0	.1	.5	7.9	14.5
SSE	.0	.1	.3	3.8	.1	1.9	.1	1.6	.1	1.5	.0	.5	.0	.1	.7	9.5	14.4
S	.0	.1	.2	2.6	.1	1.0	.1	1.3	.1	1.1	.0	.2	.0	.1	.5	6.5	14.4
SSW	.0	.2	.1	1.1	.0	.4	.0	.3	.0	.4	.0	.0	.0	.0	.2	2.3	12.6
SW	.0	.1	.1	.7	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.1	1.3	11.1
WSW	.0	.1	.0	.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.8	10.9
W	.0	.0	.0	.4	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.7	12.2
WNW	.0	.1	.0	.6	.0	.3	.0	.1	.0	.1	.0	.2	.0	.1	.1	1.5	15.4
NW	.0	.1	.1	1.8	.0	.4	.0	.7	.1	.9	.0	.5	.0	.6	.3	5.0	17.5
NNW	.0	.1	.2	3.3	.2	2.7	.2	2.5	.3	3.7	.1	2.1	.0	.3	1.0	14.6	17.6
CALM	.1	1.1													.1	1.1	
TOTAL	.2	3.3	2.5	36.0	1.3	19.3	1.2	16.9	1.1	16.2	.5	6.5	.1	1.9	7.0	100	14.7

CEILING-VISIBILITY

WIND GRAPH

GLD GOODLAND, KS

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLO GOODLAND, KS

PERIOD: 1948-1978

CLASS 4 / DAY

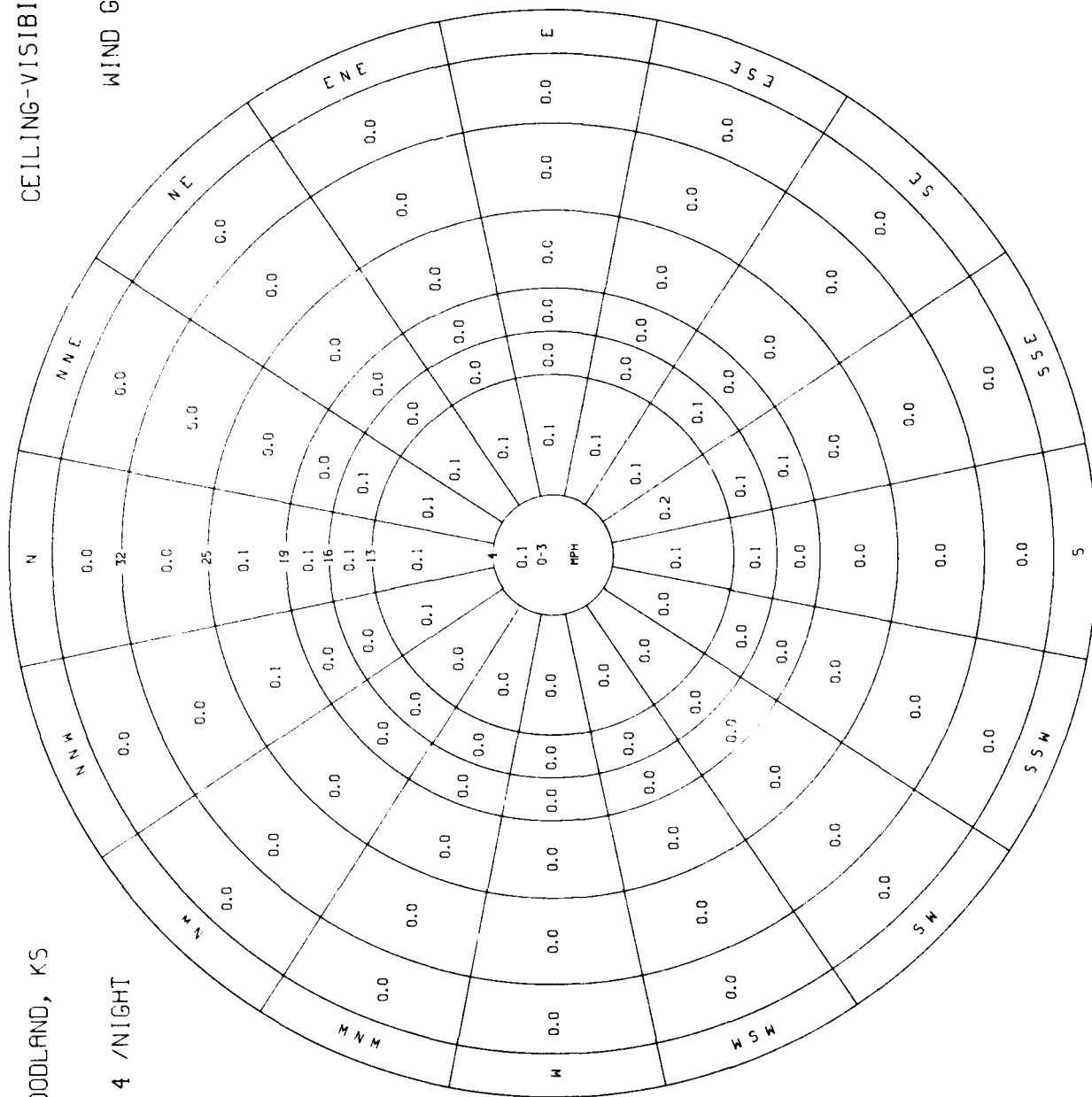
STATION NUMBER: 23065

NO. OBS.: 1143

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.1	3.3	.1	2.4	.1	2.7	.1	2.6	.0	1.7	.0	.0	.3 12.9
NNE	.0	.2	.1	4.7	.1	2.2	.1	2.5	.0	1.5	.0	.7	.0	.1	.3 11.9
NE	.0	.1	.0	2.0	.0	2.1	.0	1.7	.0	1.1	.0	.3	.0	.0	.2 7.3
ENE	.0	.1	.1	2.9	.0	1.0	.0	.8	.0	1.0	.0	.3	.0	.0	.1 6.0
E	.0	.3	.1	3.4	.0	1.8	.0	.8	.0	.5	.0	.0	.0	.0	.2 6.8
ESE	.0	.1	.1	3.2	.0	1.9	.0	.5	.0	.6	.0	.2	.0	.0	.2 6.6
SE	.0	.0	.1	3.9	.1	2.2	.0	1.5	.0	1.0	.0	.3	.0	.1	.2 9.1
SSE	.0	.0	.1	3.8	.0	2.1	.1	2.5	.0	1.7	.0	.3	.0	.2	.2 10.7
S	.0	.3	.1	3.1	.0	1.0	.0	1.4	.0	1.0	.0	.3	.0	.2	.2 7.3
SSW	.0	.0	.0	1.0	.0	.5	.0	.1	.0	.1	.0	.1	.0	.0	.0 1.7
SW	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0 .3
WSW	.0	.1	.0	.5	.0	.2	.0	.0	.0	.1	.0	.1	.0	.1	.0 1.0
W	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0 .6
WNW	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.2	.0 .6
NW	.0	.2	.0	.3	.0	.3	.0	.5	.0	.6	.0	.7	.0	1.1	.1 3.8
NNW	.0	.0	.0	2.1	.0	1.6	.0	1.5	.1	2.7	.1	2.6	.0	1.0	.3 11.5
CALM	.0	1.7													.0 1.7
TOTAL	.1	3.1	.8	35.1	.4	19.4	.4	16.7	.3	14.9	.2	7.7	.1	3.1	2.3 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 23065

NO. OBS.: 1091

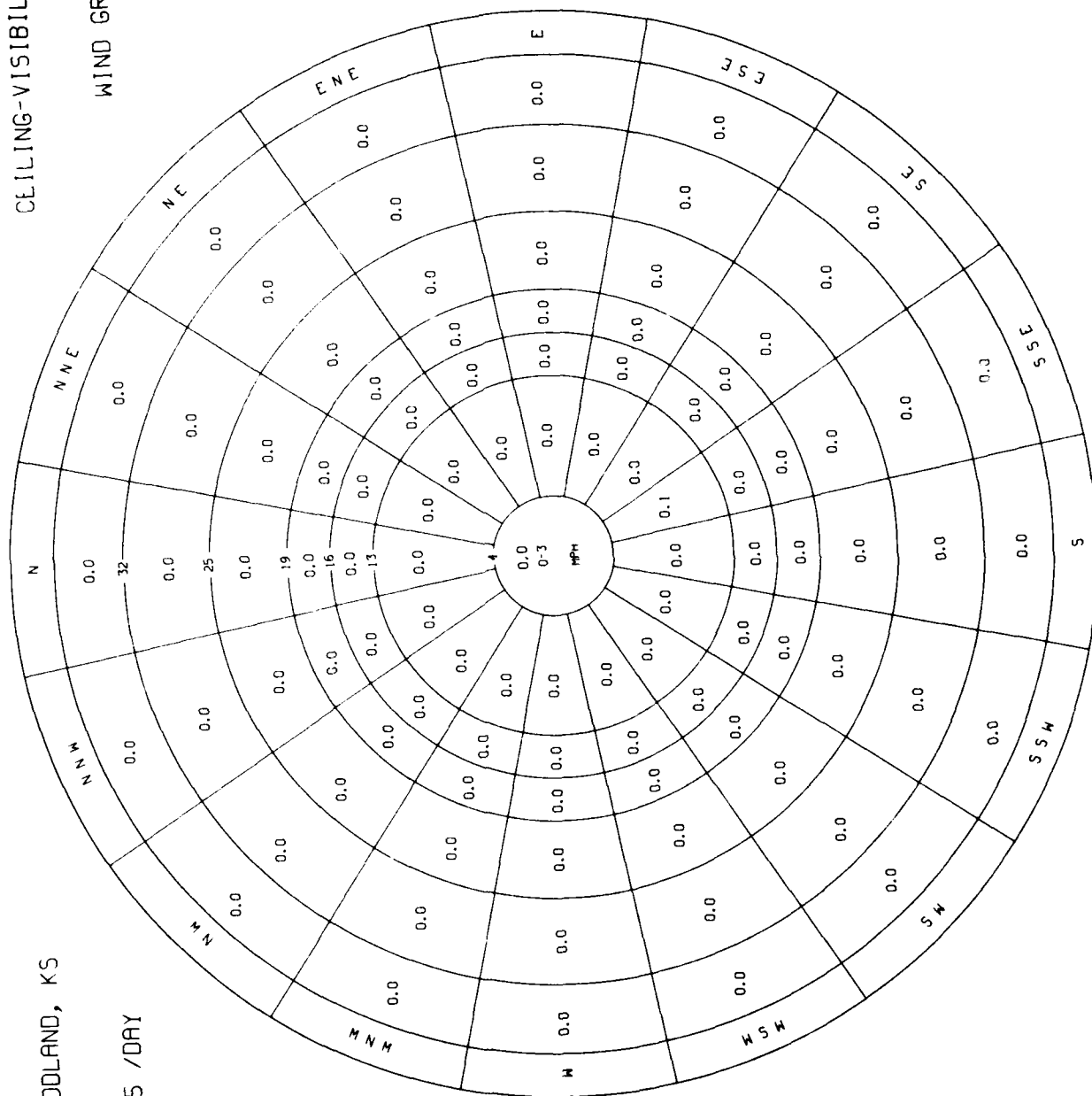
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.1	3.9	.1	2.4	.1	2.5	.1	3.4	.0	1.3	.0	.2	.4	13.7	16.4
NNE	.0	.4	.1	3.0	.1	2.1	.0	.8	.0	1.5	.0	.4	.0	.0	.2	8.2	13.6
NE	.0	.1	.1	2.7	.0	.6	.0	1.2	.0	.6	.0	.1	.0	.1	.1	5.5	13.4
ENE	.0	.2	.1	3.1	.0	1.1	.0	.9	.0	.1	.0	.0	.0	.0	.1	5.4	10.9
E	.0	.3	.1	4.0	.0	1.6	.0	1.0	.0	1.1	.0	.1	.0	.0	.2	8.2	12.8
ESE	.0	.2	.1	3.9	.0	1.3	.0	.6	.0	.2	.0	.0	.0	.0	.2	6.2	10.9
SE	.0	.2	.1	3.8	.1	2.0	.0	1.6	.0	1.2	.0	.9	.0	.3	.3	10.0	15.3
SSE	.0	.0	.2	6.0	.1	2.5	.1	1.9	.0	1.5	.0	.5	.0	.2	.3	12.6	13.8
S	.0	.3	.1	3.7	.1	2.2	.0	1.1	.0	.7	.0	.3	.0	.0	.2	8.2	12.6
SSW	.0	.0	.0	.8	.0	.4	.0	.4	.0	.5	.0	.1	.0	.0	.1	2.2	15.5
SW	.0	.3	.0	1.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.6	8.8
WSW	.0	.2	.0	.8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	8.2
W	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	8.8
WNW	.0	.1	.0	1.2	.0	.1	.0	.0	.0	.0	.0	.3	.0	.1	.0	1.7	12.1
NW	.0	.0	.0	.9	.0	.1	.0	.0	.0	.5	.0	.3	.0	.9	.1	2.7	22.9
NNW	.0	.2	.1	2.5	.0	1.8	.0	1.6	.1	2.0	.0	1.7	.0	.5	.3	10.4	17.7
CALM	.0	1.5													.0	1.5	
TOTAL	.1	4.0	1.1	42.0	.5	18.3	.4	13.7	.4	13.6	.2	6.0	.1	2.3	2.7	100	14.0

CEILING-VISIBILITY

WIND GRAPH

GLO GOODLAND, KS

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 5 / DAY

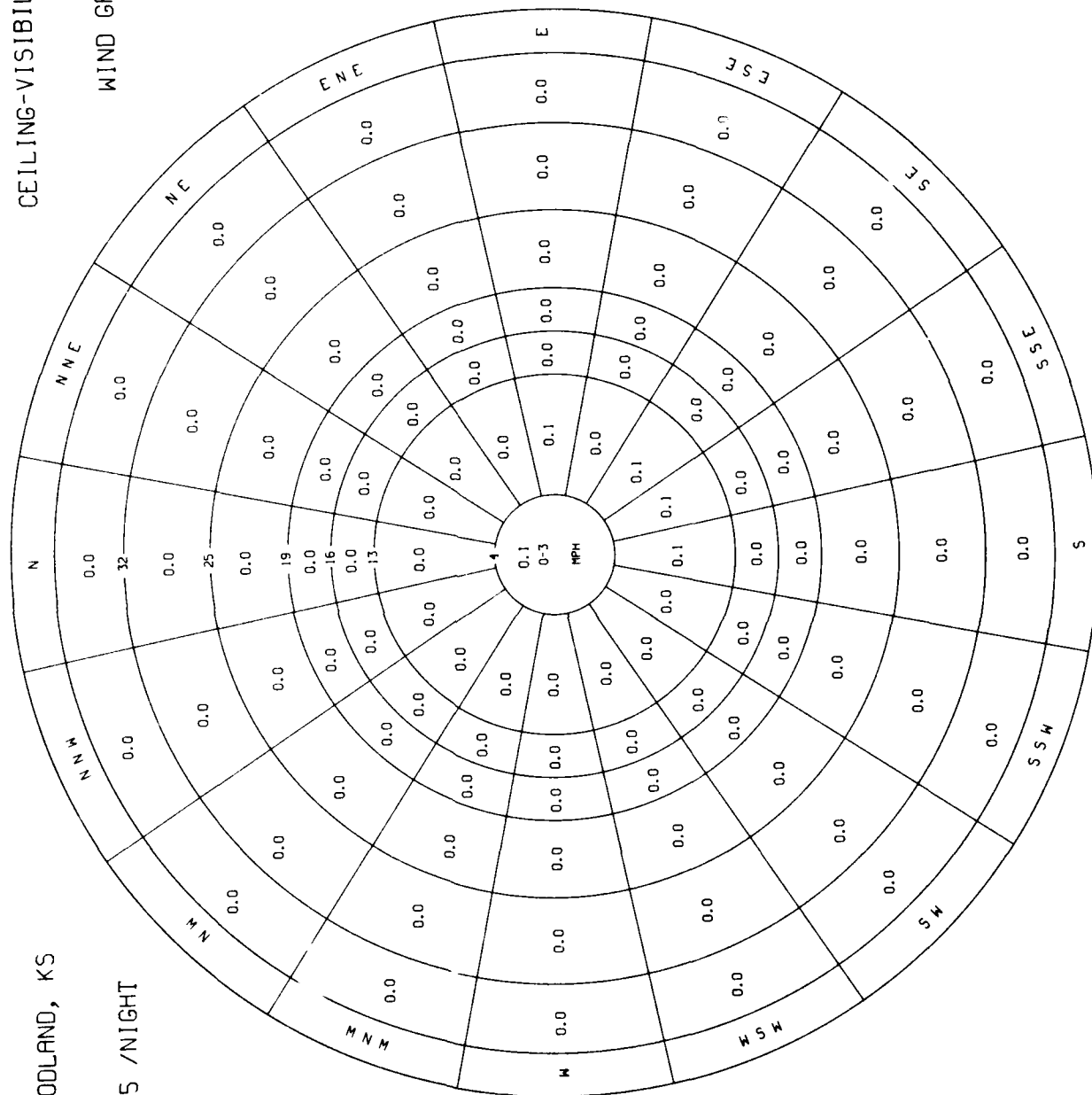
STATION NUMBER: 23065

NO. OBS.: 438

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	4.8	.0	2.1	.0	1.6	.0	3.2	.0	3.7	.0	1.1	.1 16.4
NNE	.0	.0	.0	3.0	.0	1.1	.0	.9	.0	.7	.0	.7	.0	.0	.1 6.4
NE	.0	.0	.0	3.7	.0	.7	.0	1.6	.0	.5	.0	.2	.0	.0	.1 6.6
ENE	.0	.2	.0	1.8	.0	1.1	.0	.9	.0	.0	.0	.2	.0	.0	.0 4.3
E	.0	.5	.0	4.8	.0	2.1	.0	.9	.0	.9	.0	.0	.0	.0	.1 9.1
ESE	.0	.2	.0	2.7	.0	.9	.0	.7	.0	.5	.0	.0	.0	.0	.0 5.0
SE	.0	.0	.0	3.7	.0	1.4	.0	1.6	.0	.9	.0	.5	.0	.0	.1 8.0
SSE	.0	.2	.1	7.5	.0	2.1	.0	2.3	.0	1.4	.0	.5	.0	.0	.1 13.9
S	.0	.0	.0	3.0	.0	2.3	.0	1.1	.0	.0	.0	.7	.0	.2	.1 7.3
SSW	.0	.0	.0	.9	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.0 2.3
SW	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0 1.1
WSW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0 1.1
W	.0	.7	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0 1.4
WNW	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0 1.8
NW	.0	.2	.0	.7	.0	.5	.0	.0	.0	.2	.0	1.1	.0	1.4	.0 4.1
NNW	.0	.5	.0	1.1	.0	.7	.0	.7	.0	2.7	.0	2.1	.0	1.4	.1 9.1
CALM	.0	1.8													.0 1.8
TOTAL	.0	4.3	.4	40.6	.1	16.0	.1	12.8	.1	11.2	.1	10.5	.0	4.6	.9 100
															15.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 5 / NIGHT

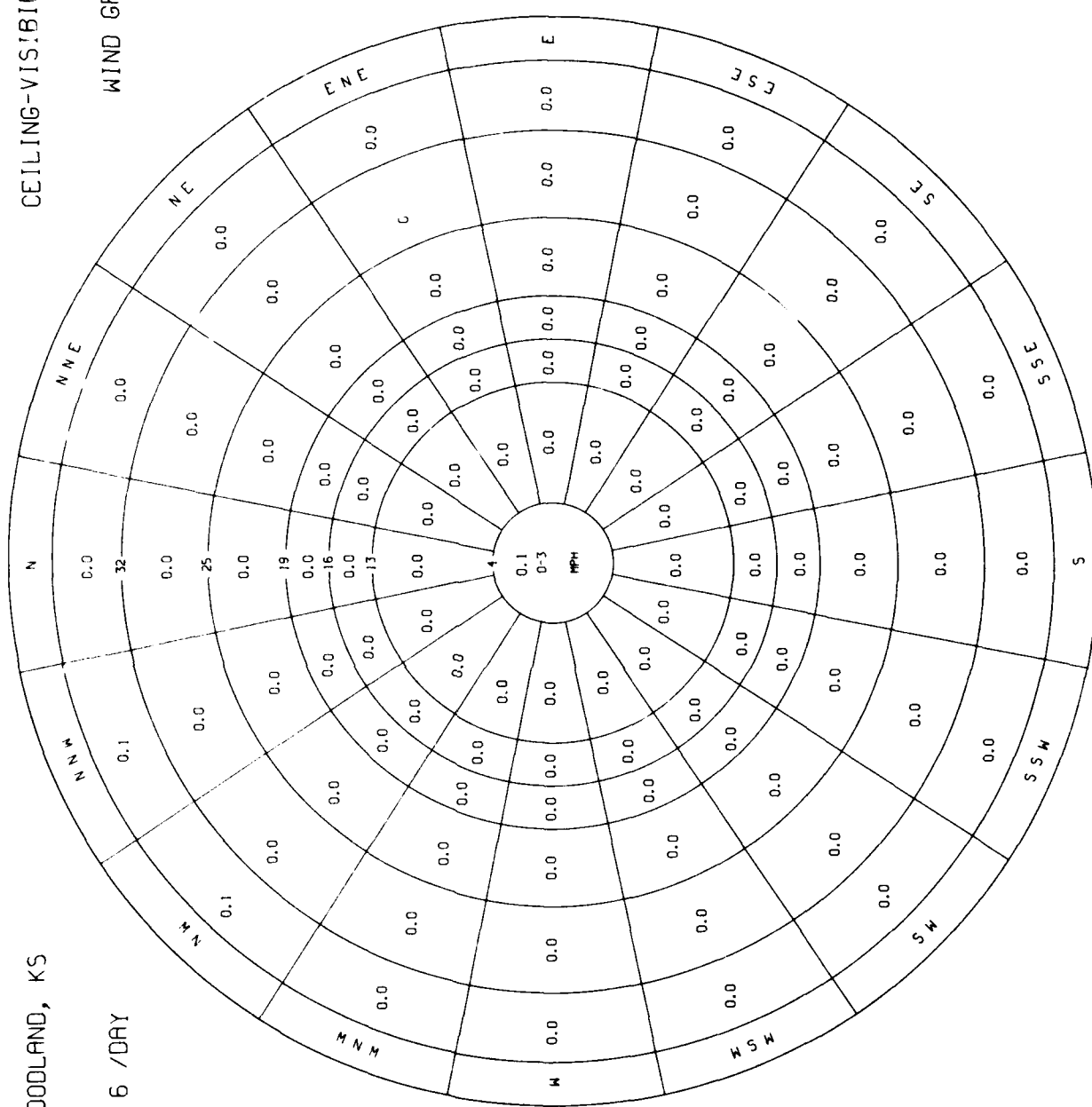
STATION NUMBER: 23065

NO. OBS.: 488

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.4	.0	3.5	.0	1.4	.0	.4	.0	2.0	.0	1.4	.0	.2	.1	9.4	16.0
NNE	.0	.2	.0	4.1	.0	1.0	.0	.8	.0	.0	.0	.2	.0	.0	.1	6.4	11.3
NE	.0	.2	.0	2.5	.0	.8	.0	.4	.0	.2	.0	.0	.0	.0	.0	4.1	11.3
ENE	.0	.0	.0	2.7	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	4.1	11.4
E	.0	.6	.1	5.3	.0	1.2	.0	1.0	.0	.2	.0	.0	.0	.0	.1	8.4	10.7
ESE	.0	.2	.0	3.9	.0	1.6	.0	1.6	.0	.4	.0	.0	.0	.0	.1	7.8	12.1
SE	.0	.0	.1	5.3	.0	2.9	.0	1.8	.0	1.4	.0	.0	.0	.0	.1	11.5	12.6
SSE	.0	.0	.1	7.6	.0	3.1	.0	3.9	.0	1.4	.0	.4	.0	.0	.2	16.4	13.3
S	.0	.2	.1	4.3	.0	1.4	.0	1.2	.0	.0	.0	.0	.0	.0	.1	7.2	10.8
SSW	.0	.0	.0	1.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	10.2
SW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	9.3
WSW	.0	.0	.0	1.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	8.8
W	.0	.4	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.7
WNW	.0	.2	.0	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	1.6	15.2
NW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	1.0	.0	3.7	20.2
NNW	.0	.2	.0	1.8	.0	.8	.0	.4	.0	1.4	.0	2.3	.0	2.0	.1	9.0	22.2
CALM	.0	3.3													.0	3.3	
TOTAL	.1	5.9	.6	49.8	.2	15.8	.2	12.5	.1	7.6	.1	4.7	.0	3.7	1.2	100	13.0

CEILING-VISIBILITY

WIND GRAPH



GLD GOODLAND, KS

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GLD GOODLAND, KS

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 23065

NO. OBS.: 344

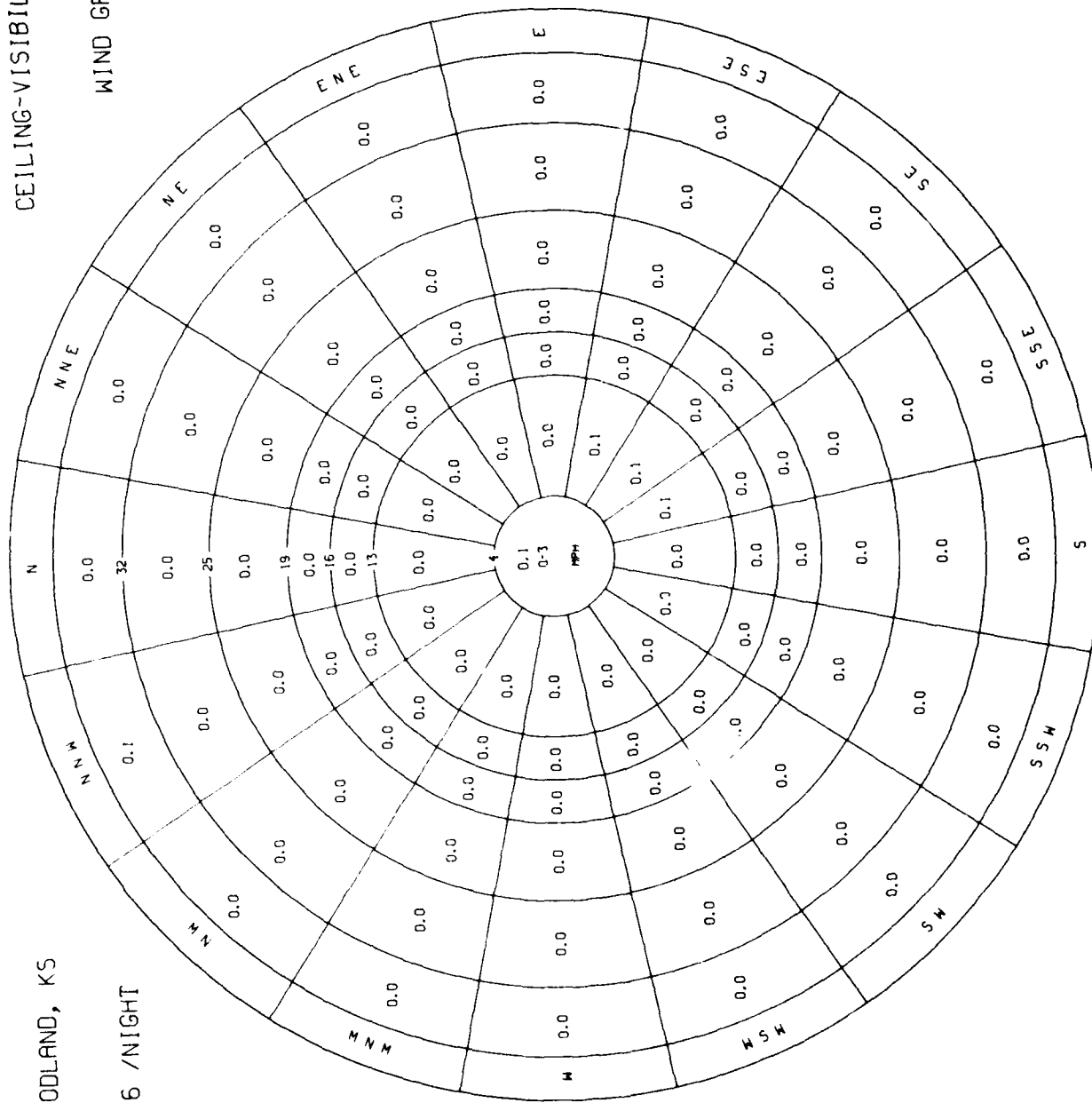
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.9	.0	2.6	.0	.0	.0	.9	.0	2.9	.0	1.5	.0	2.9	.1	11.6	21.5
NNE	.0	.3	.0	2.9	.0	.6	.0	.3	.0	.3	.0	.6	.0	.0	.0	4.7	11.9
NNE	.0	.3	.0	2.9	.0	.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	5.2	11.0
ENE	.0	.3	.0	1.2	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	2.3	10.9
E	.0	.0	.0	4.1	.0	2.0	.0	1.2	.0	.6	.0	.0	.0	.0	.1	7.8	12.0
ESE	.0	.0	.0	2.9	.0	.3	.0	1.5	.0	.6	.0	.3	.0	.0	.0	5.5	14.3
SE	.0	.0	.0	1.7	.0	2.3	.0	1.7	.0	.9	.0	.0	.0	.0	.0	6.7	14.5
SSE	.0	.3	.0	7.0	.0	1.7	.0	2.6	.0	1.2	.0	.3	.0	.0	.1	13.1	12.6
S	.0	.3	.0	.6	.0	.6	.0	.0	.0	.3	.0	.6	.0	.0	.0	2.3	15.1
SSW	.0	.0	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.5	10.4
SW	.0	.6	.0	.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	2.0	13.9
WSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.5	10.0
W	.0	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	1.2	22.7
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.3	.0	2.0	.0	2.9	34.5
NW	.0	.3	.0	2.6	.0	.0	.0	.6	.0	.3	.0	1.2	.1	7.8	.1	12.8	30.7
NNW	.0	.0	.0	1.7	.0	.9	.0	.3	.0	.3	.0	2.3	.1	9.3	.1	14.8	32.6
CALM	.0	4.1													.0	4.1	
TOTAL	.1	7.3	.2	33.7	.1	9.9	.1	10.8	.1	8.7	.0	7.0	.2	22.7	.7	100	19.2

CEILING-VISIBILITY

WIND GRAPH

GLD GOODLAND, KS

CLASS 6 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GLD GOODLAND, KS

CLASS 6 / NIGHT

NO. OBS.: 454

STATION NUMBER: 23065

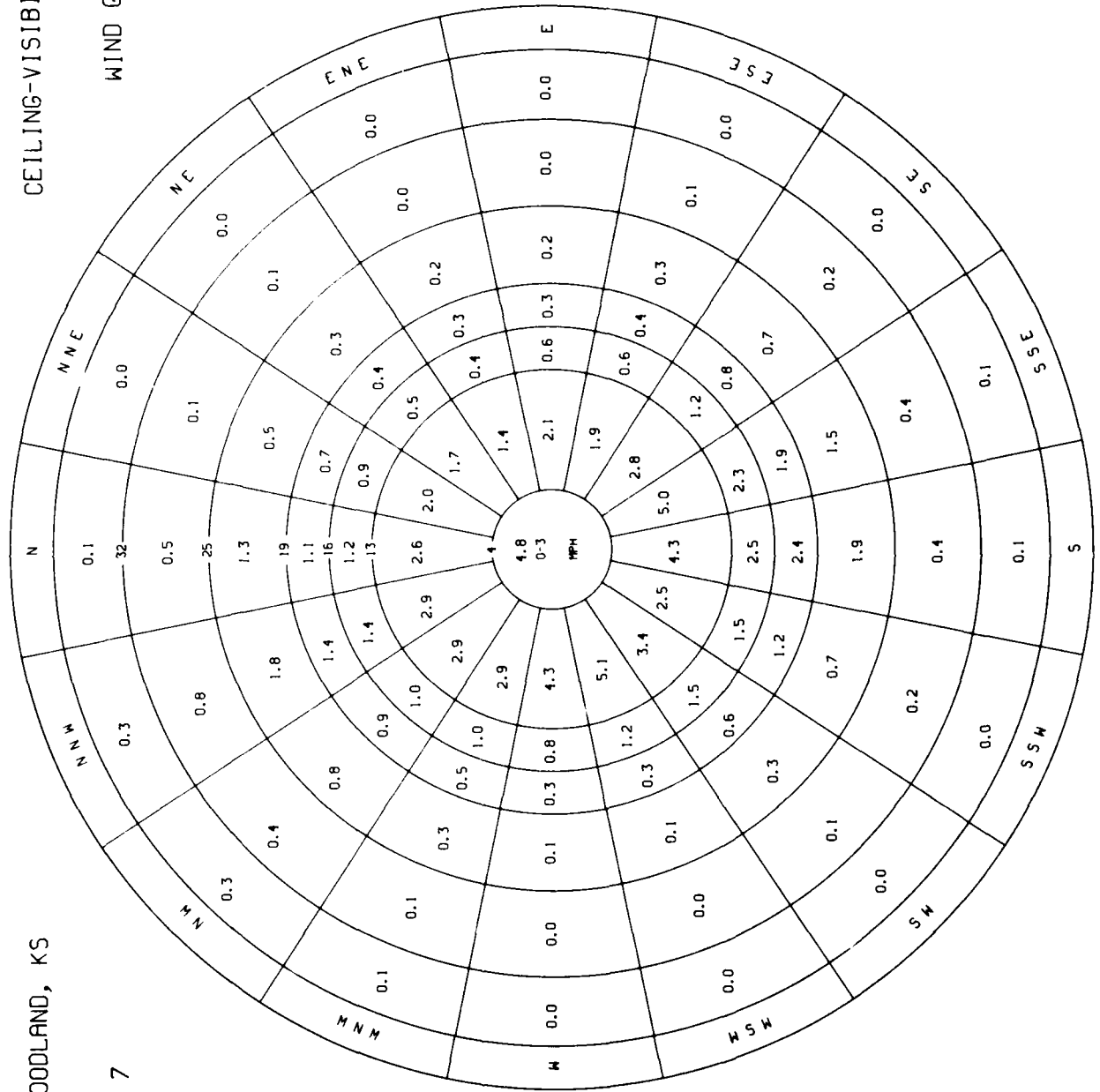
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	.2	.0	2.9	.0	1.5	.0	.4	.0	.9	.0	1.0	.0	2.2	.1	9.9	20.9
NNE	.0	.4	.0	2.2	.0	1.5	.0	.4	.0	.7	.0	.2	.0	.0	.1	5.5	12.4
NE	.0	.7	.0	2.0	.0	.7	.0	.2	.0	.0	.0	.4	.0	.0	.0	4.0	10.2
ENE	.0	.2	.0	2.6	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.2	10.5
E	.0	.4	.0	4.0	.0	1.3	.0	1.1	.0	.0	.0	.0	.0	.0	.1	6.8	10.6
ESE	.0	.2	.1	4.8	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.6	10.7
SE	.0	.7	.1	6.4	.0	2.9	.0	2.0	.0	.9	.0	.0	.0	.0	.1	12.8	11.7
SSE	.0	.0	.1	7.0	.0	2.6	.0	1.8	.0	.4	.0	.0	.0	.0	.1	11.9	11.5
S	.0	.4	.0	4.2	.0	1.8	.0	1.1	.0	.0	.0	.0	.0	.0	.1	7.5	10.8
SSW	.0	.2	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	9.9
SW	.0	.2	.0	2.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.9	8.0
WSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.8	9.4
W	.0	.2	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	8.2
WNW	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	2.9	15.5
NW	.0	.0	.0	.9	.0	.0	.0	.4	.0	.2	.0	.2	.0	2.9	.1	4.6	31.6
NNW	.0	.0	.0	2.4	.0	.4	.0	.7	.0	.4	.0	1.8	.1	4.8	.1	10.6	27.9
CALM	.0	4.2													.0	4.2	
TOTAL	.1	8.6	.5	47.1	.2	16.3	.1	9.3	.0	3.7	.0	4.4	.1	10.6	1.1	100	14.3

CEILING-VISIBILITY

WIND GRAPH

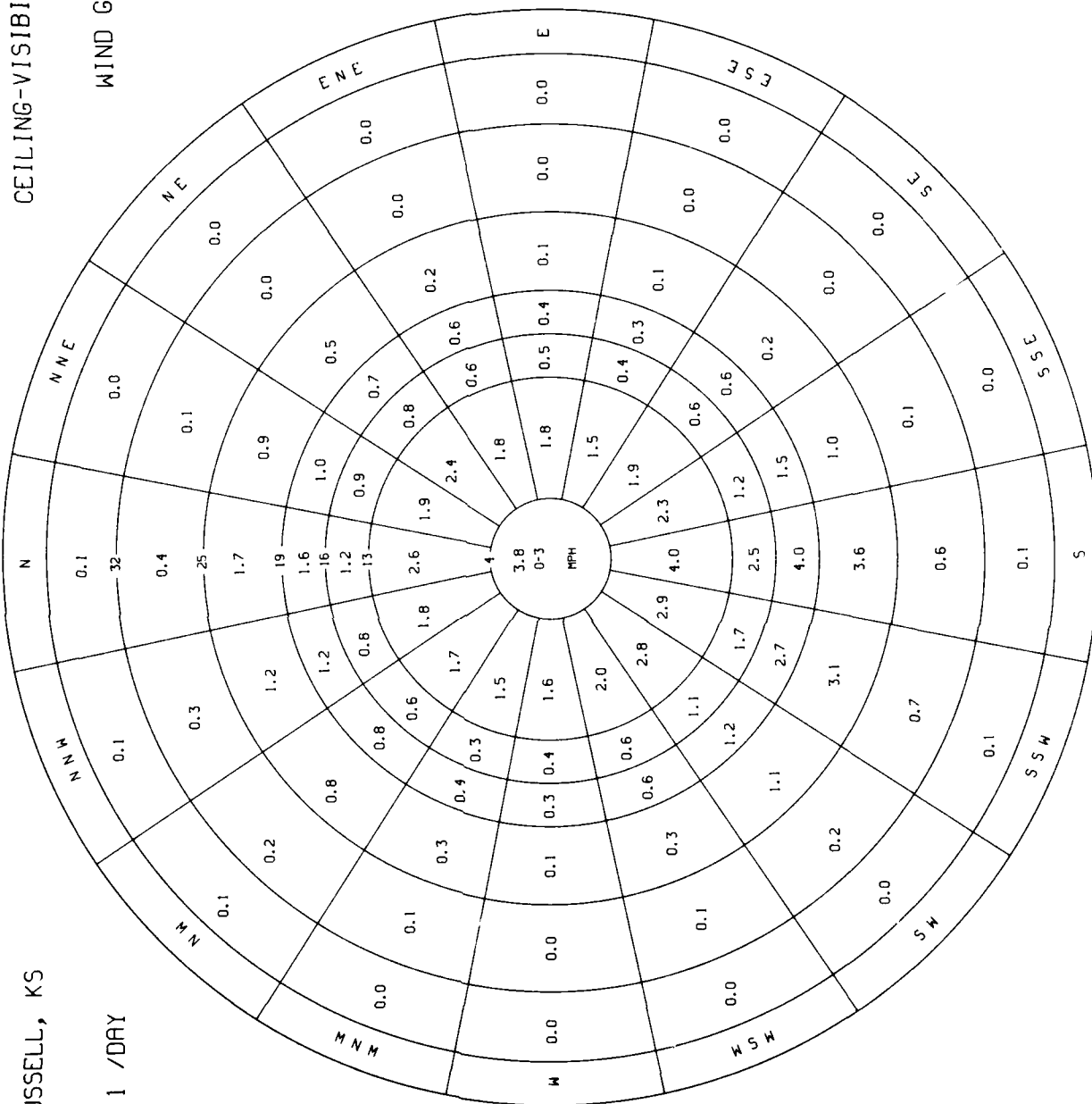
GLD GOODLAND, KS

CLASS 7



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 1 / DAY

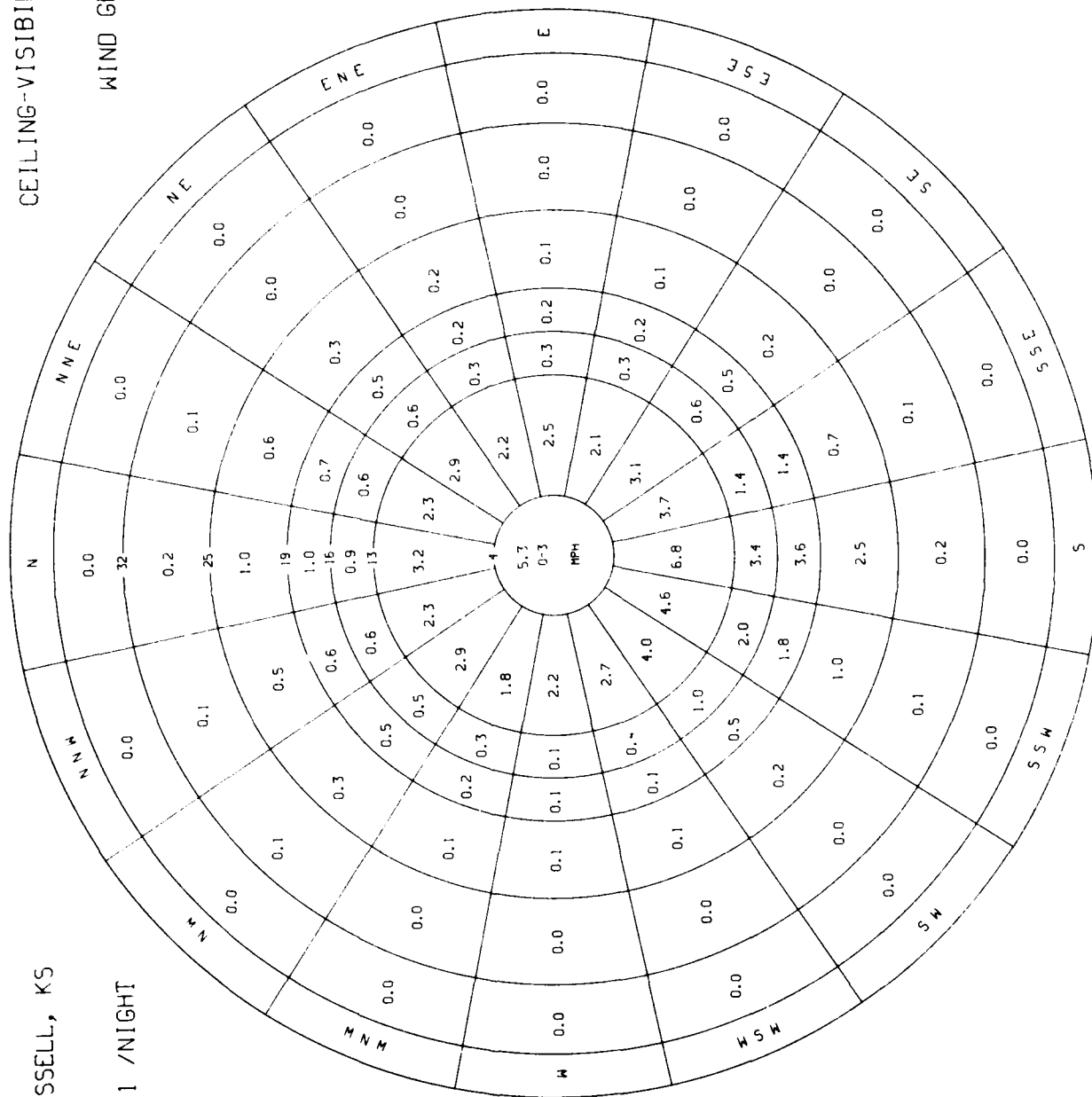
STATION NUMBER: 93997

NO. OBS.: 40513

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.1	2.6	3.0	1.2	1.4	1.6	1.8	1.7	1.9	.4	.4	.1	.1	7.7 8.7 15.3
NNE	.1	.1	1.9	2.2	.9	1.0	1.0	1.2	.9	1.0	.1	.2	.0	.0	4.9 5.5 14.3
NNE	.1	.2	2.4	2.7	.8	.9	.7	.8	.5	.6	.0	.1	.0	.0	4.6 5.2 12.4
ENE	.1	.1	1.8	2.1	.6	.6	.6	.6	.2	.2	.0	.0	.0	.0	3.3 3.7 12.0
E	.1	.1	1.8	2.0	.5	.5	.4	.4	.1	.1	.0	.0	.0	.0	2.8 3.2 11.1
ESE	.1	.1	1.5	1.6	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	2.5 2.8 11.3
SE	.1	.1	1.9	2.1	.6	.7	.6	.7	.2	.2	.0	.0	.0	.0	3.4 3.8 12.0
SSE	.1	.1	2.3	2.6	1.2	1.3	1.5	1.7	1.0	1.1	.1	.1	.0	.0	6.2 7.0 14.3
S	.1	.1	4.0	4.5	2.5	2.8	4.0	4.5	3.6	4.1	.6	.7	.1	.1	14.8 16.7 16.0
SSW	.2	.2	2.9	3.3	1.7	1.9	2.7	3.0	3.1	3.5	.7	.8	.1	.1	11.5 12.9 16.5
SW	.1	.2	2.8	3.1	1.1	1.2	1.2	1.4	1.1	1.2	.2	.2	.0	.0	6.5 7.3 13.9
WSW	.1	.1	2.0	2.2	.6	.6	.6	.6	.3	.3	.1	.1	.0	.0	3.6 4.0 12.3
W	.1	.1	1.6	1.8	.4	.4	.3	.3	.1	.2	.0	.0	.0	.0	2.5 2.8 11.3
WNW	.1	.1	1.5	1.7	.3	.4	.4	.4	.3	.3	.1	.1	.0	.0	2.7 3.0 12.3
NW	.1	.1	1.7	1.9	.6	.7	.8	.9	.8	.9	.2	.2	.1	.1	4.1 4.7 14.4
NNW	.1	.1	1.8	2.1	.8	.9	1.2	1.4	1.2	1.4	.3	.4	.1	.1	5.5 6.2 15.5
CALM	2.1	2.3													2.1 2.3
TOTAL	3.8	4.3	34.3	38.8	14.1	15.9	17.8	20.1	15.2	17.2	2.9	3.2	.5	.6	88.5 100 14.0

CEILING-VISIBILITY

WIND GRAPH



RSL RUSSELL, KS

CLASS 1 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

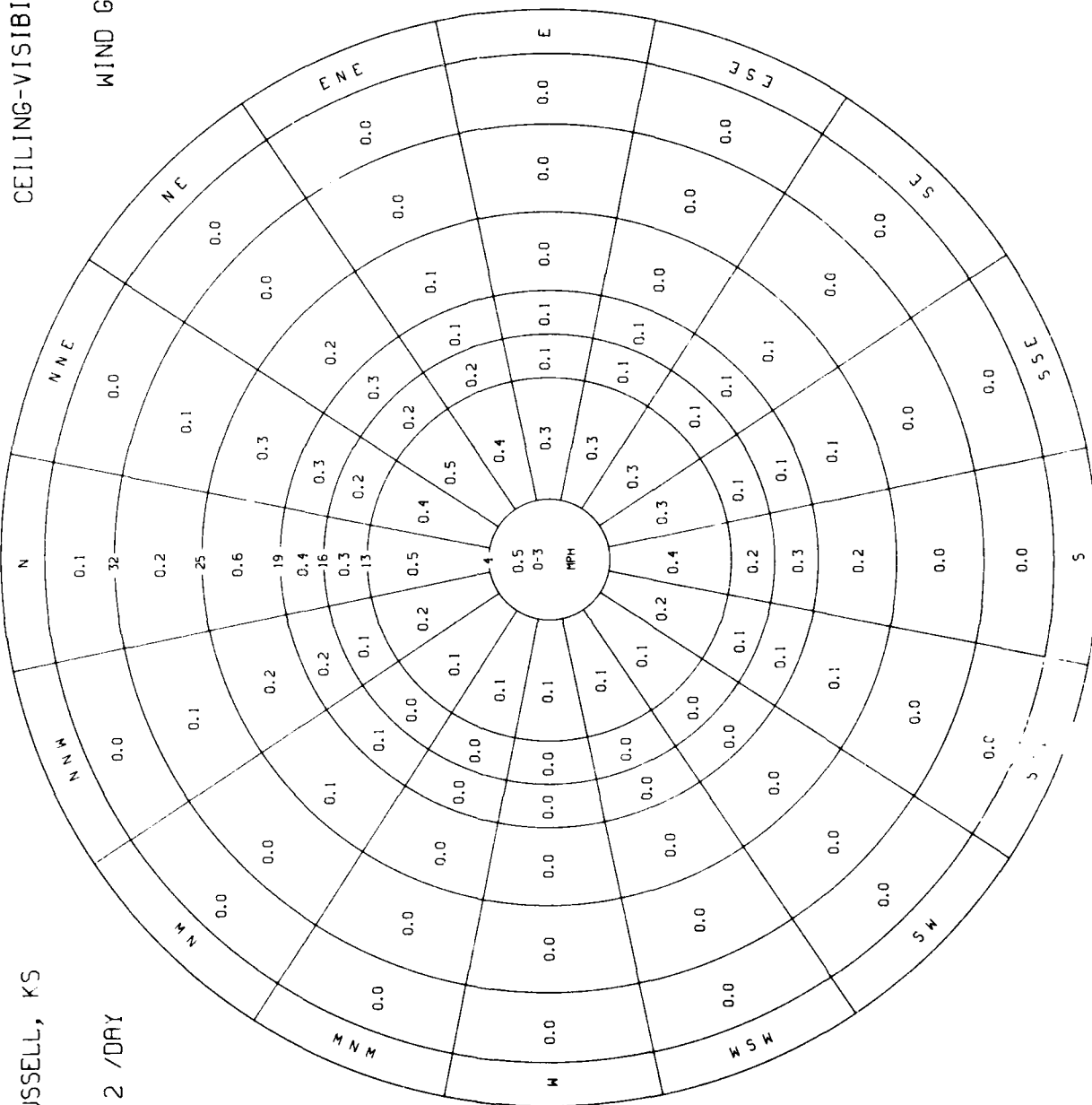
CLASS 1 / NIGHT

STATION NUMBER: 93997

NO. OBS.: 34548

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.1	.1	3.2	3.5	.9	1.0	1.0	1.1	1.0	1.1	.2	.3	.0	.1	6.4	7.2
NNE	.1	.1	2.3	2.5	.6	.7	.7	.7	.6	.6	.1	.1	.0	.0	4.4	4.9
NE	.3	.3	2.9	3.2	.6	.7	.5	.6	.3	.3	.0	.0	.0	.0	4.6	5.1
ENE	.1	.2	2.2	2.5	.3	.4	.2	.2	.2	.2	.0	.0	.0	.0	3.1	3.5
E	.1	.1	2.5	2.8	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.3	3.6
ESE	.1	.1	2.1	2.4	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.8	3.2
SE	.1	.1	3.1	3.5	.6	.7	.5	.5	.2	.2	.0	.0	.0	.0	4.5	5.0
SSE	.1	.1	3.7	4.1	1.4	1.5	1.4	1.5	.7	.8	.1	.1	.0	.0	7.2	8.1
S	.1	.2	6.8	7.7	3.4	3.8	3.6	4.0	2.5	2.8	.2	.3	.0	.0	16.7	18.7
SSW	.2	.2	4.6	5.2	2.0	2.2	1.8	2.0	1.0	1.2	.1	.1	.0	.0	9.7	10.9
SW	.2	.2	4.0	4.5	1.0	1.2	.5	.6	.2	.2	.0	.0	.0	.0	6.0	6.8
WSW	.2	.2	2.7	3.0	.4	.5	.1	.2	.1	.1	.0	.0	.0	.0	3.5	3.9
W	.2	.2	2.2	2.4	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.7	3.0
WNW	.1	.1	1.8	2.0	.3	.3	.2	.2	.1	.2	.0	.0	.0	.0	2.6	2.9
NW	.2	.2	2.9	3.2	.5	.6	.5	.5	.3	.4	.1	.1	.0	.0	4.5	5.0
NNW	.1	.1	2.3	2.6	.6	.7	.6	.7	.5	.6	.1	.1	.0	.0	4.3	4.8
CALM	3.0	3.4													3.0	3.4
TOTAL	5.3	5.9	49.3	55.2	13.5	15.1	12.1	13.6	7.8	8.8	1.1	1.2	.2	.3	89.3	100
																11.7

CEILING-VISIBILITY WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: RSL RUSSELL, MS

CLASS 2 / DAY

NO. OBS.: 5248

STATION NUMBER: 93997

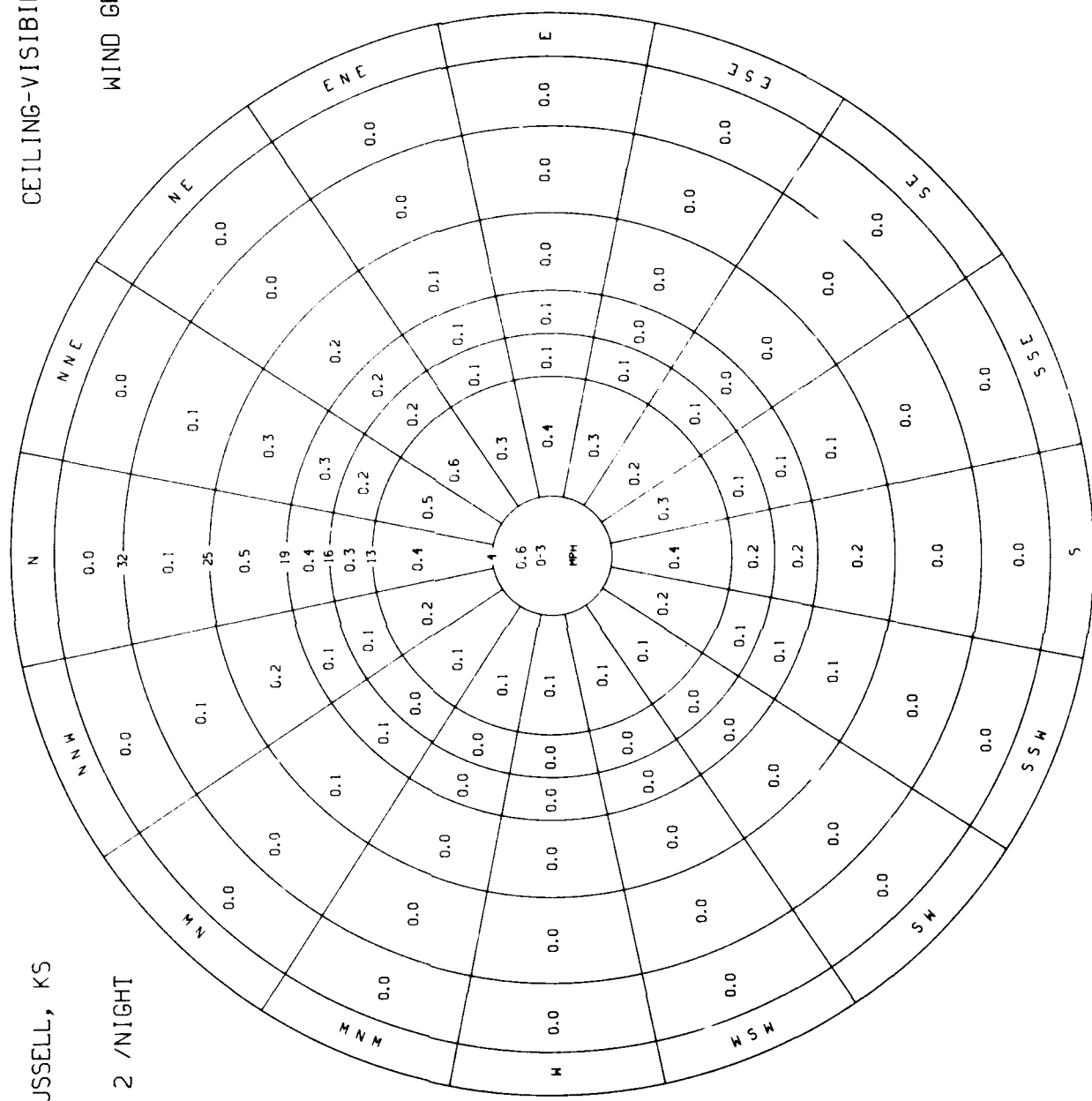
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.5	4.0	.3	2.3	.4	3.9	.6	5.3	.2	1.4	.1	.6	2.0	17.7	17.7
NNE	.0	.0	.4	3.7	.2	1.8	.3	2.6	.3	2.6	.1	.7	.0	.1	1.3	11.4	15.8
NE	.0	.1	.5	4.6	.2	1.5	.3	2.7	.2	1.6	.0	.2	.0	.0	1.2	10.7	14.0
ENE	.0	.0	.4	3.2	.2	1.5	.1	1.2	.1	.8	.0	.2	.0	.0	.8	6.9	13.4
E	.0	.2	.3	3.0	.1	.9	.1	.7	.0	.4	.0	.0	.0	.0	.6	5.2	11.7
ESE	.0	.0	.3	2.3	.1	.8	.1	.7	.0	.2	.0	.1	.0	.0	.5	4.1	12.3
SE	.0	.1	.3	2.6	.1	.7	.1	.8	.1	.5	.0	.1	.0	.0	.6	4.9	12.7
SSE	.0	.1	.3	2.5	.1	1.1	.1	1.3	.1	.9	.0	.1	.0	.1	.7	6.0	14.0
S	.0	.1	.4	3.8	.2	1.4	.3	2.3	.2	1.4	.0	.2	.0	.1	1.1	9.4	14.1
SSW	.0	.1	.2	1.5	.1	.7	.1	1.1	.1	.8	.0	.3	.0	.2	.5	4.6	15.7
SW	.0	.1	.1	1.0	.0	.2	.0	.2	.0	.2	.0	.1	.0	.0	.2	1.8	12.5
WSW	.0	.0	.1	.9	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.1	10.7
W	.0	.1	.1	.7	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.1	1.1	13.1
WNW	.0	.0	.1	.9	.0	.1	.0	.1	.0	.2	.0	.1	.0	.1	.2	1.5	14.5
NW	.0	.2	.1	.9	.0	.4	.1	.6	.1	.7	.0	.3	.0	.3	.4	3.3	17.9
NNW	.0	.1	.2	1.7	.1	.9	.2	1.5	.2	1.8	.1	1.0	.0	.3	.8	7.4	18.2
CALM	.3	2.8													.3	2.8	
TOTAL	.5	4.2	4.3	37.3	1.6	14.4	2.3	19.8	2.0	17.7	.6	4.8	.2	1.9	11.5	100	14.6

CEILING-VISIBILITY

WIND GRAPH

RSL RUSSELL, KS

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 2 / NIGHT

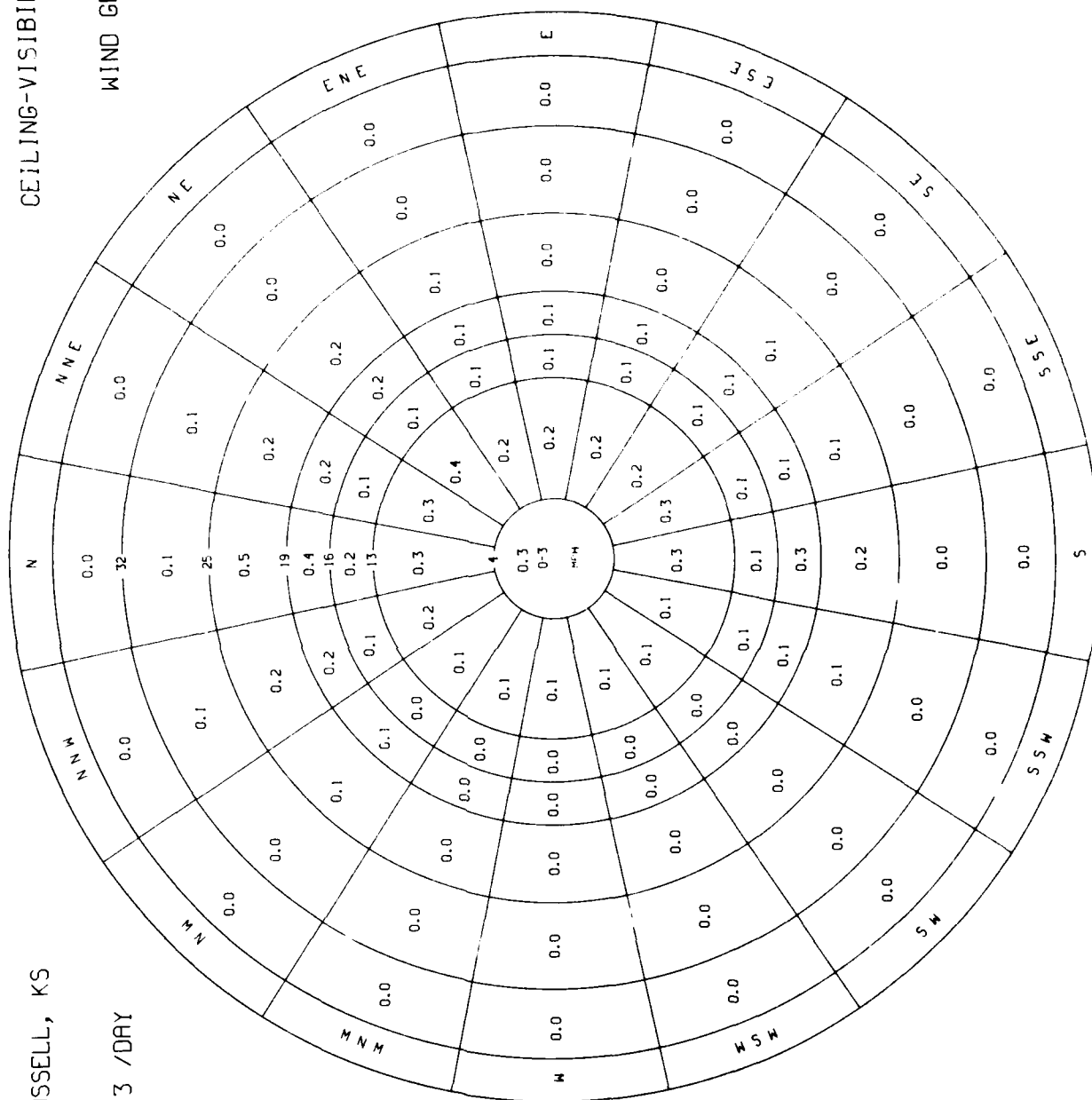
NO. OBS.: 4137

STATION NUMBER: 93997

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.4	3.9	.3	2.7	.4	4.1	.5	5.0	.1	1.3	.0	.5	1.9	17.7	17.4
NNE	.0	.2	.5	4.3	.2	1.8	.3	3.2	.3	2.8	.1	.7	.0	.3	1.4	13.3	15.8
NE	.0	.2	.6	5.3	.2	1.8	.2	2.3	.2	1.5	.0	.1	.0	.0	1.2	11.1	13.1
ENE	.0	.0	.3	3.1	.1	1.3	.1	1.0	.1	.8	.0	.1	.0	.0	.7	6.4	13.0
E	.0	.1	.4	4.1	.1	1.1	.1	1.0	.0	.3	.0	.0	.0	.0	.7	6.6	11.4
ESE	.0	.1	.3	2.4	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.4	3.6	10.8
SE	.0	.1	.2	2.2	.1	.6	.0	.4	.0	.3	.0	.0	.0	.0	.4	3.6	11.3
SSE	.0	.0	.3	2.8	.1	.9	.1	1.1	.1	.5	.0	.0	.0	.0	.6	5.3	12.8
S	.0	.1	.4	3.5	.2	1.5	.2	2.0	.2	1.5	.0	.1	.0	.0	.9	8.7	14.1
SSW	.0	.1	.2	2.0	.1	.5	.1	.7	.1	.5	.0	.1	.0	.0	.4	4.0	12.9
SW	.0	.1	.1	1.2	.0	.2	.0	.1	.0	.2	.0	.0	.0	.0	.2	1.9	10.2
WSW	.0	.0	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.2	10.6
W	.0	.1	.1	.7	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.2	11.6
WNW	.0	.1	.1	.6	.0	.2	.0	.1	.0	.3	.0	.0	.0	.0	.2	1.4	13.4
NW	.0	.1	.1	1.4	.0	.4	.1	.6	.1	.5	.0	.3	.0	.2	.4	3.6	15.4
NNW	.0	.1	.2	1.6	.1	.8	.1	1.2	.2	1.9	.1	.7	.0	.4	.7	6.8	18.1
CALM	.4	3.5													.4	3.5	
TOTAL	.6	5.3	4.3	39.8	1.6	14.6	2.0	18.5	1.8	16.4	.4	3.7	.2	1.7	10.7	100	13.9

RSL RUSSELL, KS

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 3 / DAY

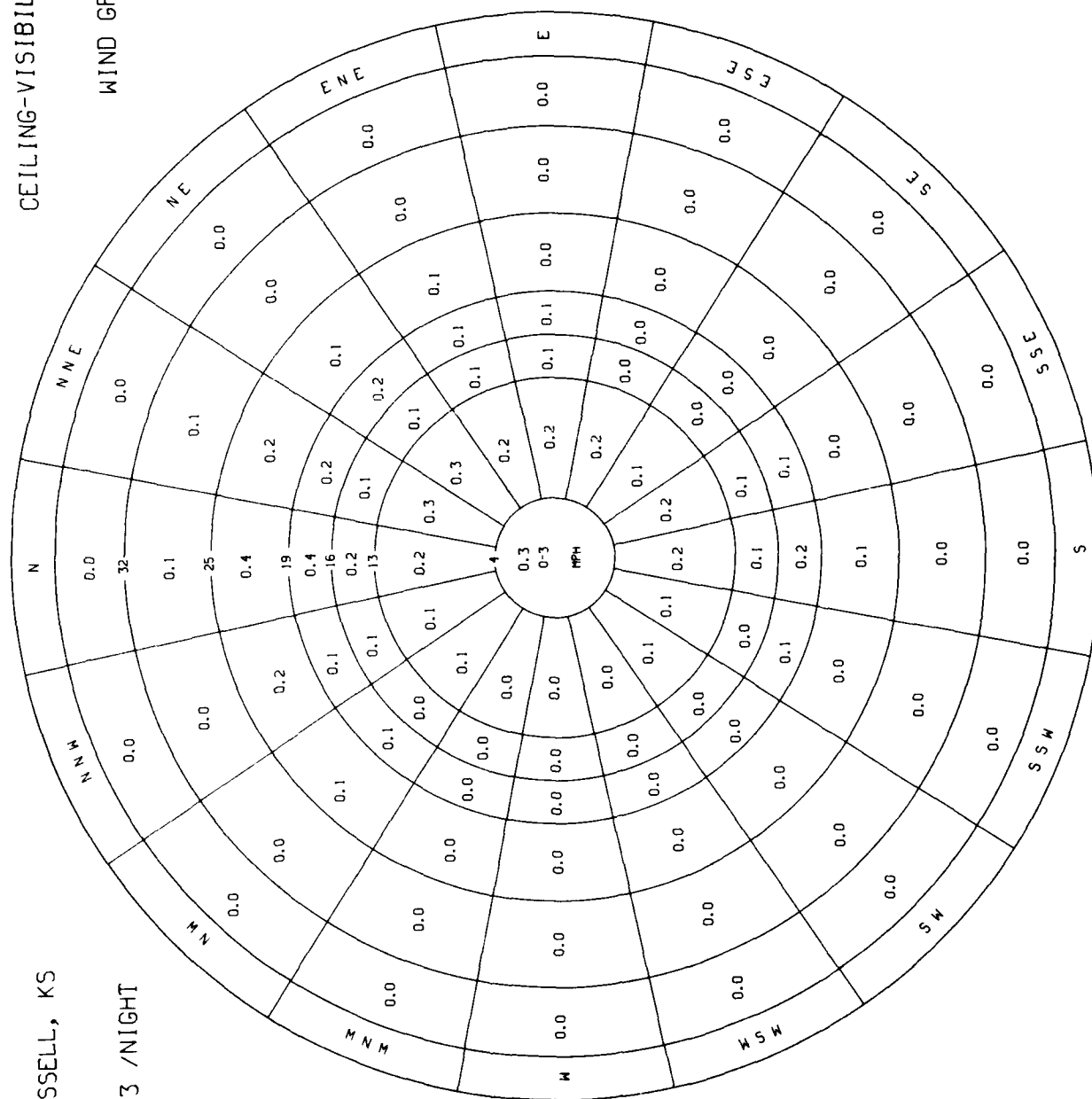
STATION NUMBER: 93997

NC. OBS.: 4055

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.3	3.9	.2	2.5	.4	4.2	.5	5.4	.1	1.4	.0	.4	1.6 17.9
NNE	.0	.0	.3	3.1	.1	1.4	.2	2.7	.2	2.6	.1	.7	.0	.0	.9 10.5
NE	.0	.1	.4	4.3	.1	1.5	.2	2.4	.2	1.7	.0	.2	.0	.0	.9 10.2
ENE	.0	.0	.2	2.5	.1	1.2	.1	1.1	.1	.7	.0	.1	.0	.0	.5 5.6
E	.0	.1	.2	2.7	.1	.8	.1	.8	.0	.3	.0	.0	.0	.0	.4 4.8
ESE	.0	.0	.2	2.2	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.3 3.9
SE	.0	.1	.2	2.8	.1	.7	.1	.9	.1	.6	.0	.1	.0	.0	.5 5.3
SSE	.0	.1	.3	2.8	.1	1.1	.1	1.4	.1	1.1	.0	.1	.0	.1	.6 6.7
S	.0	.1	.3	3.9	.1	1.6	.3	2.8	.2	1.7	.0	.2	.0	.0	.9 10.4
SSW	.0	.0	.1	1.7	.1	.7	.1	1.2	.1	.9	.0	.3	.0	.2	.5 5.1
SW	.0	.1	.1	.9	.0	.2	.0	.2	.0	.1	.0	.1	.0	.0	.2 1.7
WSW	.0	.0	.1	.8	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1 1.2
W	.0	.0	.1	.6	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.1 1.1
WNW	.0	.0	.1	1.0	.0	.1	.0	.2	.0	.2	.0	.2	.0	.1	.2 1.8
NW	.0	.1	.1	.9	.0	.4	.1	.7	.1	.8	.0	.3	.0	.2	.3 3.5
NNW	.0	.1	.2	1.7	.1	.9	.2	1.8	.2	2.1	.1	1.0	.0	.3	.7 7.9
CALM	.2	2.4													.2 2.4
TOTAL	.3	3.6	3.2	35.9	1.3	14.2	1.9	21.3	1.7	18.7	.4	4.7	.1	1.6	8.9 100

CEILING-VISIBILITY

WIND GRAPH



RSL RUSSELL, KS

CLASS 3 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 3 / NIGHT

STATION NUMBER: 93997

NO. OBS.: 2783

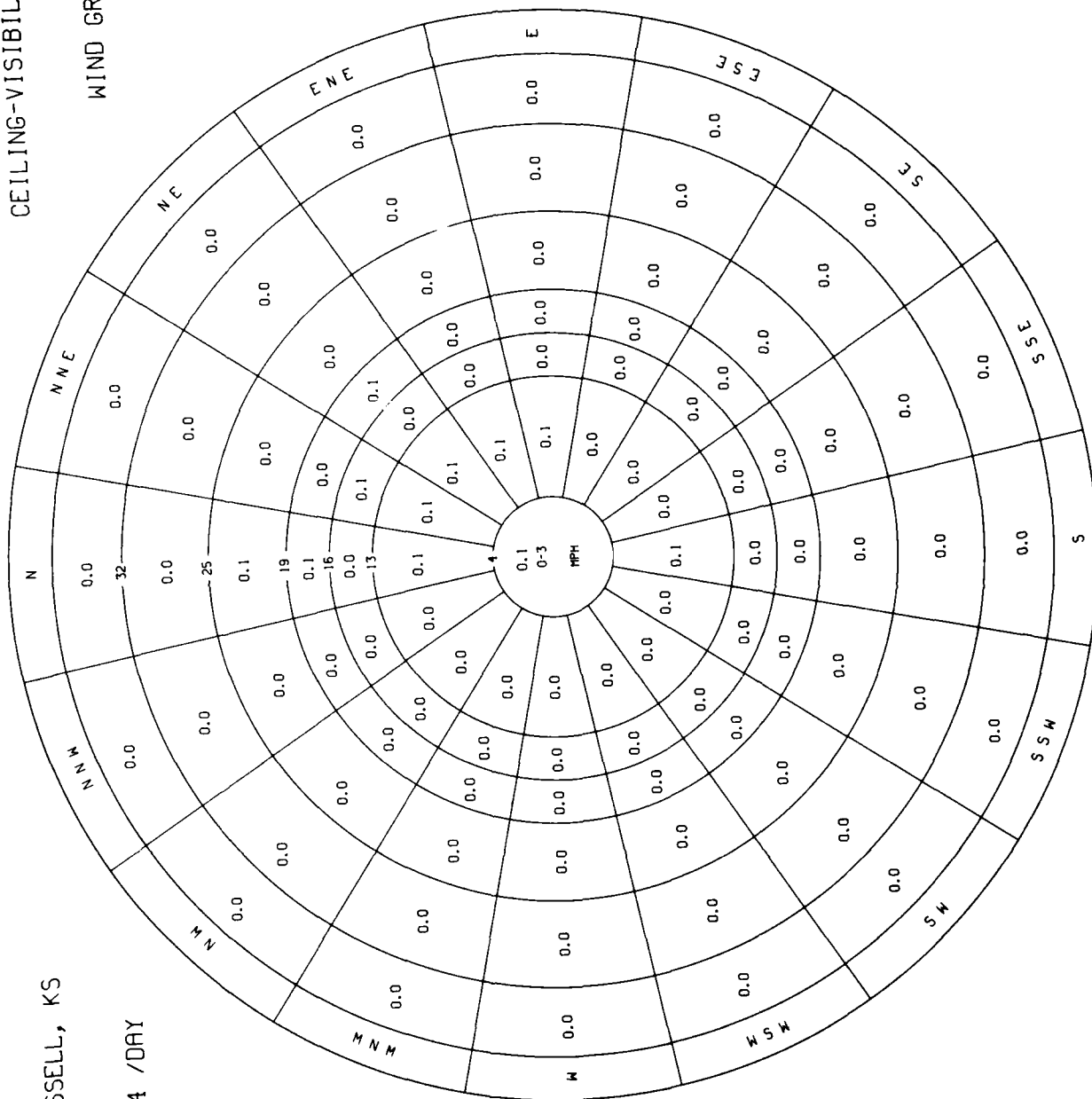
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.2	3.4	.2	3.3	.4	5.2	.4	5.9	.1	1.2	.0	.3	1.4	19.3	17.4
NNE	.0	.2	.3	4.2	.1	2.0	.2	3.2	.2	3.2	.1	.8	.0	.2	1.0	13.8	15.8
NE	.0	.1	.3	4.5	.1	1.6	.2	2.3	.1	1.7	.0	.1	.0	.1	.7	10.4	13.8
ENE	.0	.0	.2	3.0	.1	1.0	.1	.8	.1	.7	.0	.1	.0	.0	.4	5.6	12.8
E	.0	.1	.2	3.3	.1	1.2	.1	.9	.0	.3	.0	.0	.0	.0	.4	5.8	11.7
ESE	.0	.0	.2	2.1	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.2	3.4	11.3
SE	.0	.1	.1	1.8	.0	.5	.0	.5	.0	.3	.0	.0	.0	.0	.2	3.3	12.0
SSE	.0	.0	.2	2.6	.1	.9	.1	1.2	.0	.7	.0	.1	.0	.0	.4	5.5	13.6
S	.0	.0	.2	3.3	.1	1.7	.2	2.4	.1	1.7	.0	.2	.0	.0	.7	9.5	14.8
SSW	.0	.1	.1	1.7	.0	.5	.1	.8	.0	.6	.0	.2	.0	.0	.3	3.9	14.2
SW	.0	.0	.1	.9	.0	.2	.0	.1	.0	.2	.0	.0	.0	.0	.1	1.4	10.8
WSW	.0	.0	.0	.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.9	11.8
W	.0	.1	.0	.7	.0	.1	.0	.2	.0	.1	.0	.0	.0	.1	.1	1.3	12.8
WNW	.0	.1	.0	.6	.0	.3	.0	.1	.0	.4	.0	.1	.0	.0	.1	1.6	14.4
NW	.0	.1	.1	1.3	.0	.5	.1	.8	.1	.7	.0	.4	.0	.2	.3	4.0	15.9
NNW	.0	.1	.1	1.6	.1	.9	.1	1.7	.2	2.3	.0	.6	.0	.4	.5	7.5	17.8
CALM	.2	2.7													.2	2.7	
TOTAL	.3	4.0	2.6	35.6	1.1	15.6	1.5	20.8	1.4	18.9	.3	3.8	.1	1.3	7.2	100	14.5

CEILING-VISIBILITY

WIND GRAPH

RSL RUSSELL, KS

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 4 / DAY

STATION NUMBER: 93997

NO. OBS.: 700

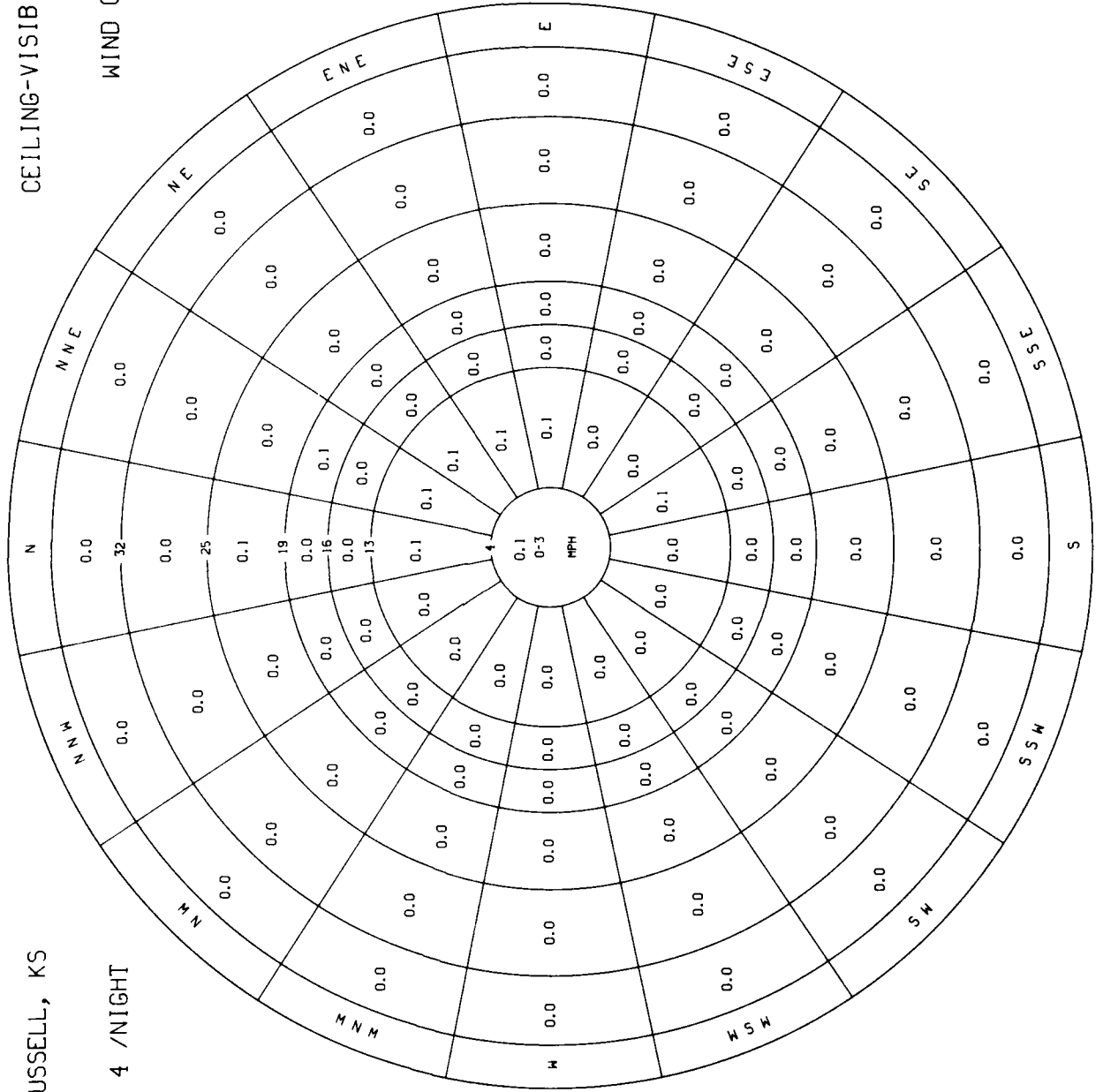
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.1	5.0	.0	2.3	.1	4.3	.1	6.6	.0	1.1	.0	.6	.3	20.0	17.5
NNE	.0	.0	.1	4.7	.1	3.3	.0	2.6	.0	2.6	.0	.9	.0	.0	.2	14.0	15.3
NE	.0	.0	.1	5.3	.0	1.9	.1	5.0	.0	2.1	.0	.0	.0	.0	.2	14.3	14.3
ENE	.0	.1	.1	3.9	.0	3.0	.0	1.6	.0	1.3	.0	.4	.0	.0	.2	10.3	14.0
E	.0	.3	.1	3.7	.0	1.0	.0	.7	.0	.9	.0	.1	.0	.0	.1	6.7	12.1
ESE	.0	.0	.0	2.0	.0	1.6	.0	.6	.0	.4	.0	.0	.0	.0	.1	4.6	13.2
SE	.0	.0	.0	1.9	.0	1.0	.0	.6	.0	.1	.0	.1	.0	.0	.1	3.7	13.1
SSE	.0	.0	.0	1.3	.0	1.0	.0	1.0	.0	.9	.0	.0	.0	.0	.1	4.1	14.6
S	.0	.0	.1	3.9	.0	.7	.0	.9	.0	.9	.0	.1	.0	.0	.1	6.4	12.7
SSW	.0	.1	.0	.6	.0	.4	.0	.6	.0	.6	.0	.4	.0	.1	.0	2.9	17.9
SW	.0	.0	.0	.7	.0	.1	.0	.3	.0	.3	.0	.0	.0	.0	.0	1.4	13.6
WSW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.5
W	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	22.0
WNNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.7	11.2
NW	.0	.6	.0	.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.6	.0	2.6	15.5
NNW	.0	.0	.0	1.6	.0	.9	.0	1.0	.0	.9	.0	.7	.0	.0	.1	5.0	16.3
CALM	.0	2.3													.0	2.3	
TOTAL	.1	3.6	.6	36.6	.3	17.6	.3	19.1	.3	17.7	.1	4.0	.0	1.4	1.5	100	14.6

CEILING-VISIBILITY

WIND GRAPH

RSL RUSSELL, KS

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: RSL RUSSELL, KS

CLASS 4 / NIGHT

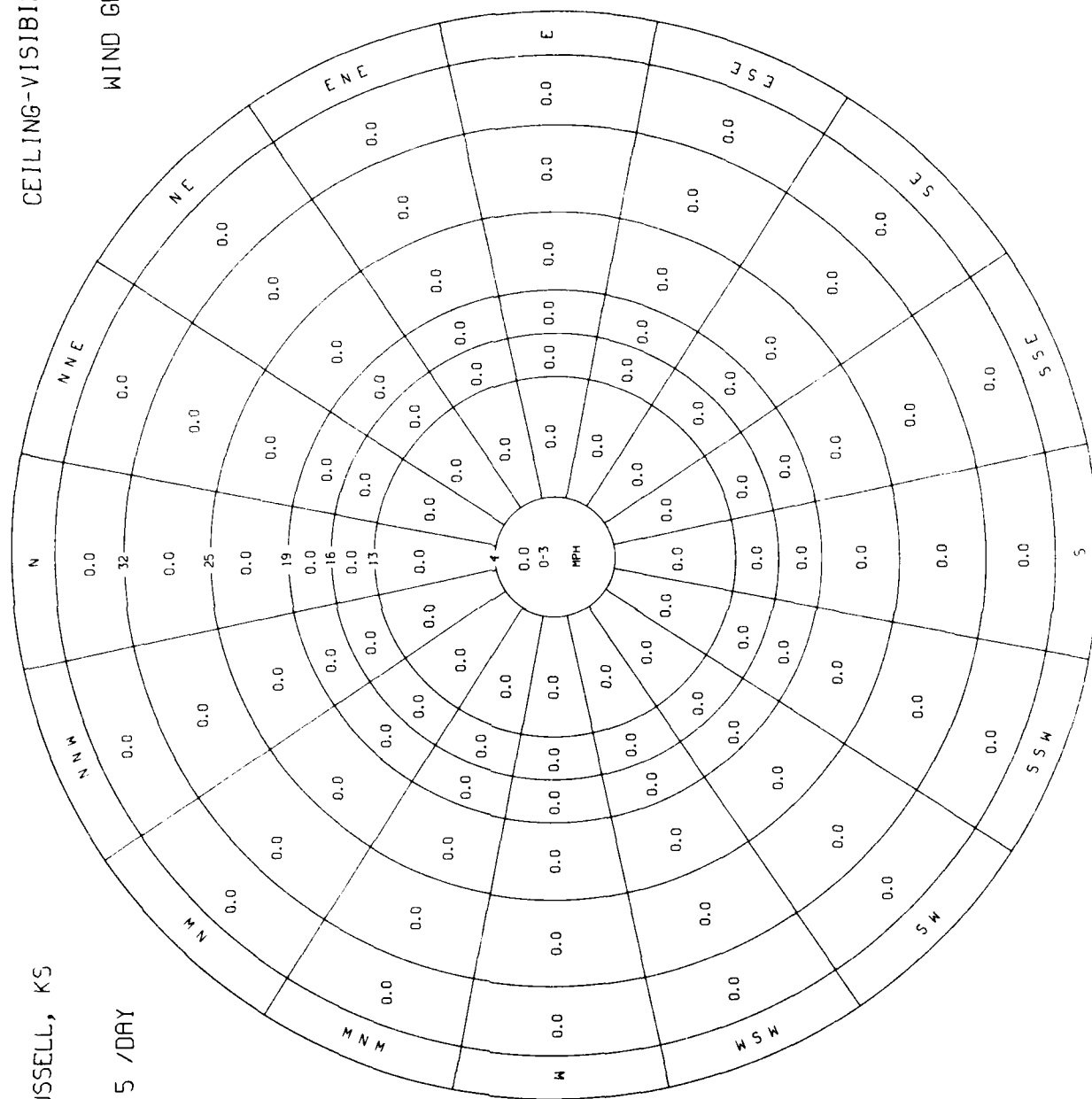
NO. OBS.: 628

STATION NUMBER: 93997

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.1	4.8	.0	1.6	.0	2.5	.1	4.6	.0	1.9	.0	.5	.3	16.1	17.6
NNE	.0	.2	.1	4.9	.0	1.8	.1	4.8	.0	2.9	.0	.3	.0	.3	.2	15.1	15.3
NE	.0	.3	.1	6.7	.0	2.4	.0	2.9	.0	1.1	.0	.2	.0	.0	.2	13.5	12.4
ENE	.0	.0	.1	3.7	.0	2.2	.0	1.8	.0	1.3	.0	.0	.0	.0	.1	8.9	14.0
E	.0	.0	.1	4.6	.0	1.4	.0	1.3	.0	.5	.0	.0	.0	.0	.1	7.8	11.8
ESE	.0	.5	.0	2.2	.0	.8	.0	.8	.0	.3	.0	.0	.0	.0	.1	4.6	11.1
SE	.0	.2	.0	2.5	.0	.6	.0	.2	.0	.2	.0	.2	.0	.0	.1	3.8	11.2
SSE	.0	.3	.1	3.2	.0	.8	.0	1.0	.0	.3	.0	.0	.0	.0	.1	5.6	11.0
S	.0	.3	.0	2.1	.0	1.0	.0	1.6	.0	1.6	.0	.0	.0	.0	.1	6.5	14.1
SSW	.0	.2	.0	1.6	.0	.3	.0	.5	.0	.2	.0	.0	.0	.0	.0	2.7	11.1
SW	.0	.3	.0	.8	.0	.2	.0	.2	.0	.3	.0	.0	.0	.0	.0	1.8	10.6
WSW	.0	.0	.0	.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.1	11.9
W	.0	.2	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.8	9.4
WNW	.0	.0	.0	.5	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.0	11.8
NW	.0	.2	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.9	9.0
NNW	.0	.0	.0	1.6	.0	1.0	.0	.3	.0	1.4	.0	1.4	.0	.2	.1	5.9	18.5
CALM	.0	2.9													.0	2.9	
TOTAL	.1	5.6	.7	41.7	.2	14.6	.3	18.2	.2	14.8	.1	4.1	.0	1.0	1.6	100	13.5

CEILING-VISIBILITY

WIND GRAPH



RSL RUSSELL, KS

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, KS

PERIOD: 1950-1978

CLASS 5 / DAY

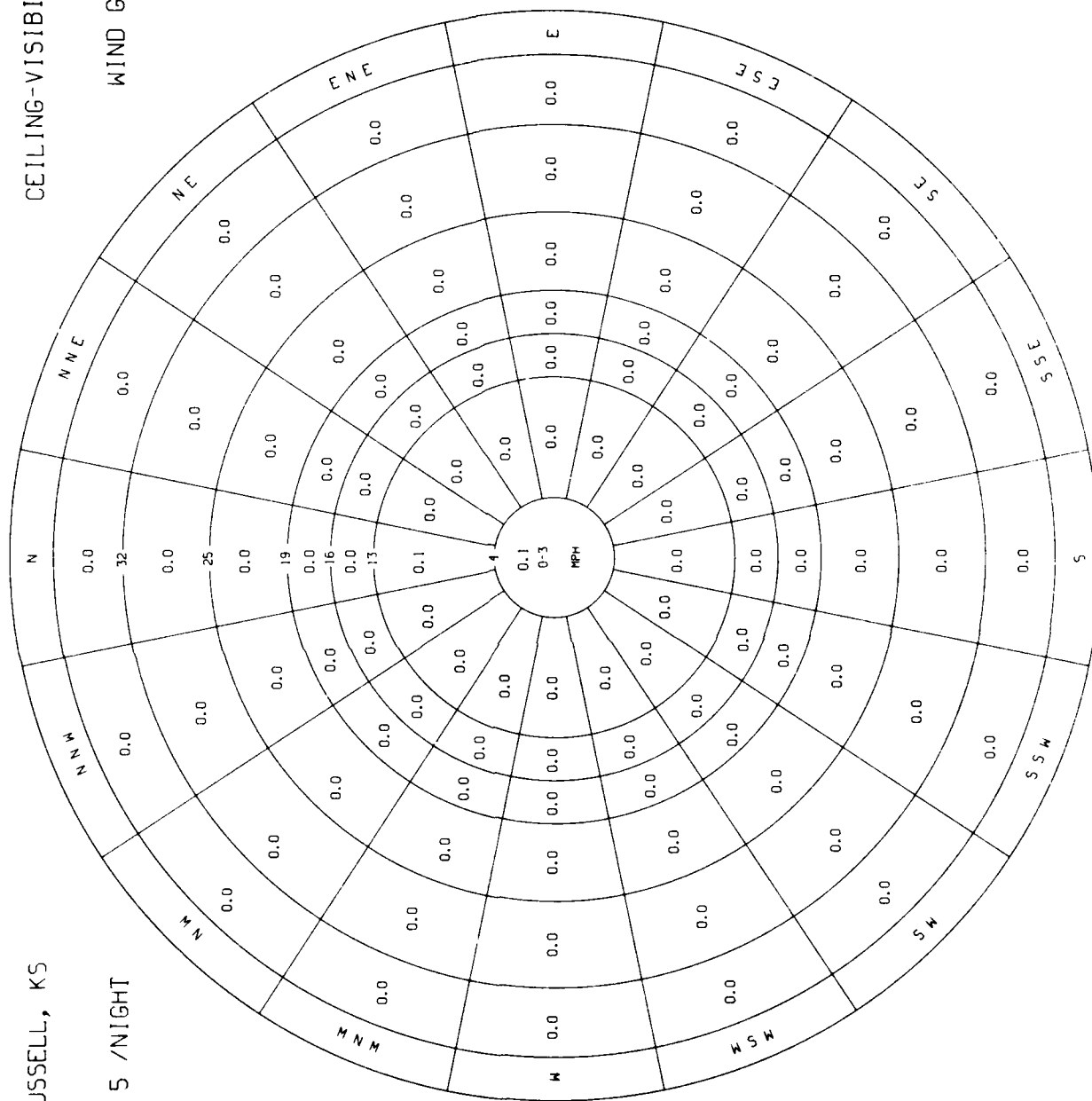
STATION NUMBER: 93997

NO. OBS.: 224

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.0	5.8	.0	.4	.0	2.2	.0	3.1	.0	1.3	.0	.0	.1	13.4	15.8
NNE	.0	.0	.0	8.0	.0	2.7	.0	1.8	.0	4.9	.0	1.3	.0	.4	.1	19.2	15.5
NE	.0	.4	.0	5.8	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	8.5	11.2
ENE	.0	.0	.0	5.8	.0	2.2	.0	.9	.0	.4	.0	.4	.0	.0	.0	9.8	12.0
E	.0	.4	.0	3.6	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	6.7	11.4
ESE	.0	.0	.0	3.6	.0	.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	5.8	12.1
SE	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.4	.0	.9	.0	.0	.0	4.0	15.1
SSE	.0	.0	.0	1.3	.0	2.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.5	14.1
S	.0	.0	.0	3.1	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.9	.0	5.8	15.2
SSW	.0	.0	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	1.8	11.7
SW	.0	.0	.0	1.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.2	9.6
WSW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1.3	19.3
W	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.2
WNW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.0
NW	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.9	.0	.4	.0	.4	.0	3.6	16.1
NNW	.0	.4	.0	.9	.0	.4	.0	.4	.0	1.8	.0	1.3	.0	.0	.0	5.4	17.8
CALM	.0	5.8													.0	5.8	
TOTAL	.0	8.0	.2	47.3	.1	12.9	.1	11.6	.1	12.1	.0	5.8	.0	2.2	.5	100	13.2

CEILING-VISIBILITY

WIND GRAPH



RSL RUSSELL, KS

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RSL RUSSELL, MS

PERIOD: 1950-1978

CLASS 5 / NIGHT

STATION NUMBER: 93997

NO. OBS.: 291

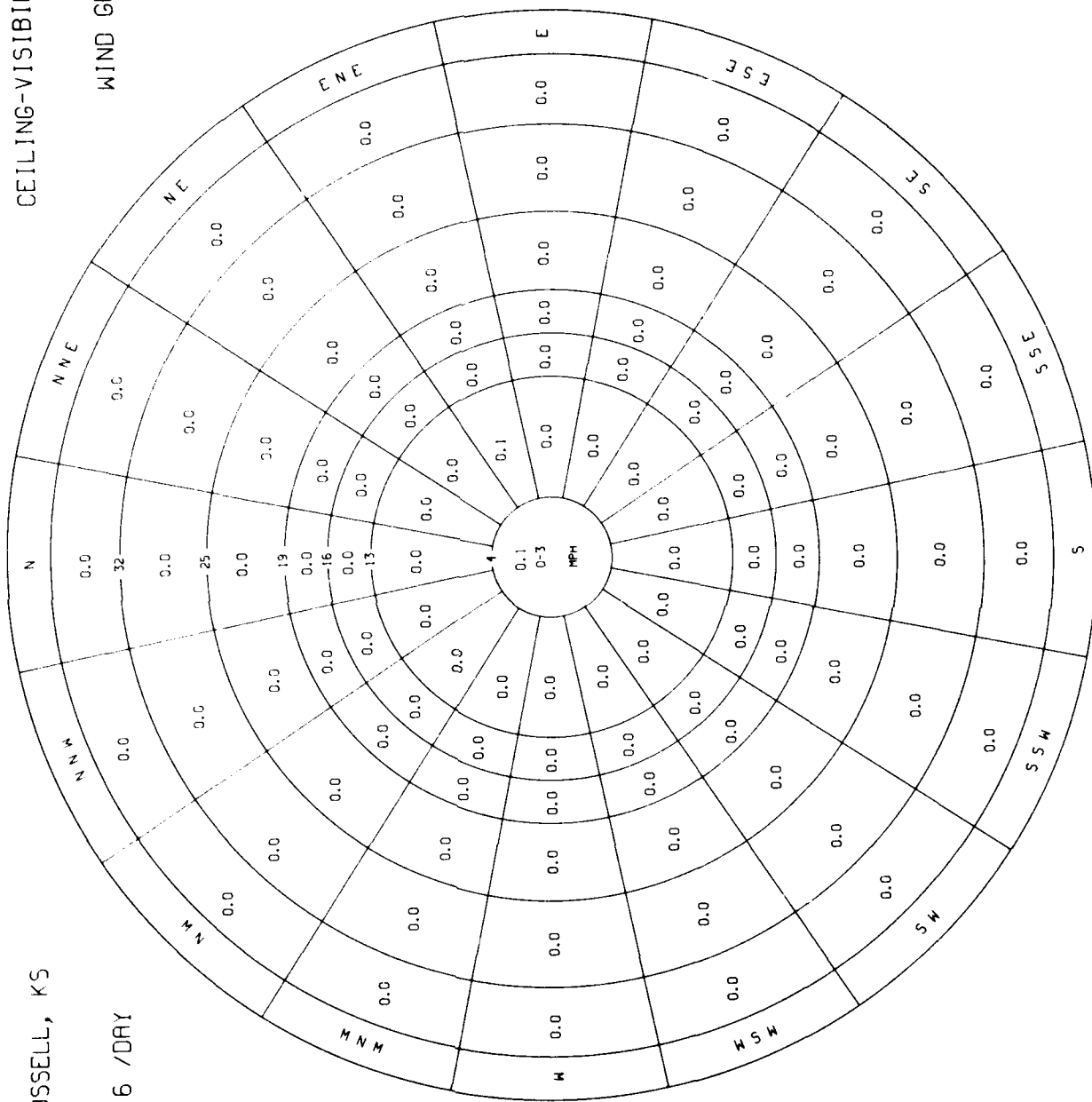
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	6.9	.0	2.1	.0	1.0	.0	3.8	.0	1.0	.0	.3	.1 15.1
NNE	.0	.3	.0	3.8	.0	.3	.0	1.0	.0	1.4	.0	.7	.0	1.4	.1 8.9
NE	.0	.3	.0	6.5	.0	1.0	.0	2.4	.0	1.0	.0	.0	.0	.0	.1 11.3
ENE	.0	.3	.0	4.5	.0	2.7	.0	1.0	.0	.7	.0	.3	.0	.0	.1 9.6
E	.0	.0	.0	5.8	.0	.7	.0	1.7	.0	.3	.0	.0	.0	.0	.1 8.6
ESE	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
SE	.0	.3	.0	3.1	.0	1.0	.0	.3	.0	.3	.0	.0	.0	.0	.0 5.2
SSE	.0	.0	.0	3.8	.0	1.7	.0	1.0	.0	.3	.0	.0	.0	.0	.1 6.9
S	.0	.0	.0	5.5	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.1 7.6
SSW	.0	.7	.0	3.1	.0	.7	.0	1.4	.0	.3	.0	.0	.0	.0	.0 6.2
SW	.0	.0	.0	1.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
WSW	.0	.3	.0	1.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
W	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .3
WNW	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0 .7
NW	.0	.0	.0	.7	.0	.3	.0	.0	.0	.7	.0	.0	.0	.3	.0 2.1
NNW	.0	.0	.0	2.1	.0	.3	.0	.0	.0	1.0	.0	.0	.0	.7	.0 4.1
CALM	.0	5.2													.0 5.2
TOTAL	.1	7.6	.4	53.3	.1	12.7	.1	10.7	.1	11.0	.0	2.1	.0	2.7	.8 100

CEILING-VISIBILITY

WIND GRAPH

RSL RUSSELL, KS

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: RSL RUSSELL, KS

CLASS 6 / DAY

NO. OBS.: 269

STATION NUMBER: 93997

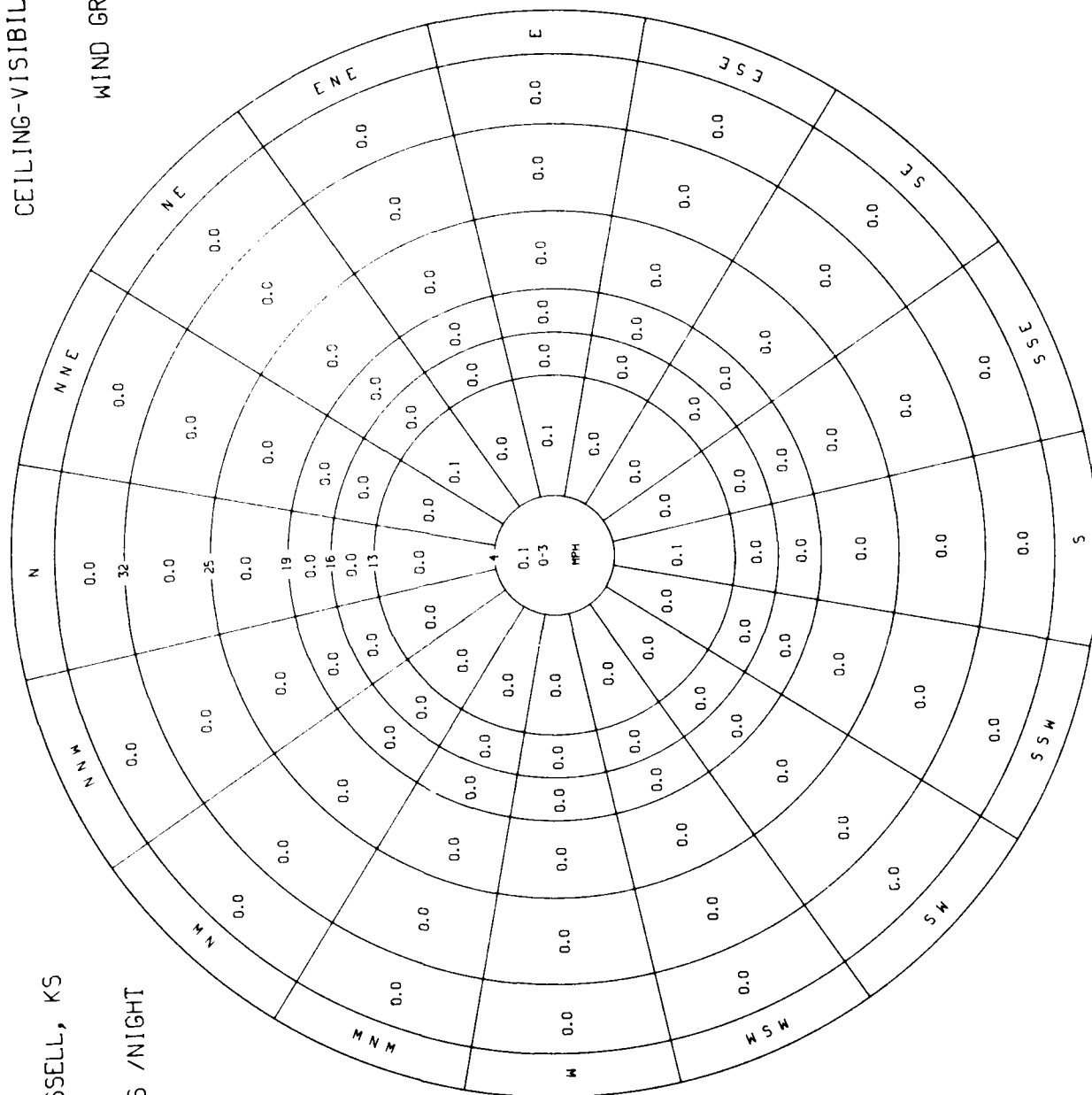
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	2.2	.0	.4	.0	.4	.0	2.6	.0	3.0	.0	3.7	.1 13.0
NNE	.0	.0	.0	6.3	.0	1.9	.0	1.5	.0	.7	.0	.0	.0	.4	.1 10.8
NNE	.0	.0	.0	6.3	.0	2.2	.0	1.1	.0	.4	.0	.4	.0	.0	.1 10.4
ENE	.0	.0	.1	8.9	.0	1.9	.0	1.9	.0	1.1	.0	.0	.0	.0	.1 13.8
E	.0	.0	.0	4.1	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 4.8
ESE	.0	.0	.0	4.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 4.5
SE	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
SSE	.0	.0	.0	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
S	.0	.4	.0	3.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.2
SSW	.0	.7	.0	2.6	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	.0 4.8
SW	.0	.0	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0 3.3
WSW	.0	.0	.0	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
W	.0	.7	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0 3.0
WNW	.0	.0	.0	.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 1.1
NW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.4	.0 2.6
NNW	.0	.4	.0	2.2	.0	.4	.0	.0	.0	.4	.0	2.2	.0	1.9	.0 7.4
CALM	.0	8.2													.0 8.2
TOTAL	.1	11.2	.3	52.4	.1	10.8	.0	5.6	.0	6.3	.0	7.1	.0	6.7	.6 100

CEILING-VISIBILITY

WIND GRAPH

RSL RUSSELL, KS

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: RSL RUSSELL, KS

CLASS 6 / NIGHT

NO. OBS.: 435

STATION NUMBER: 93997

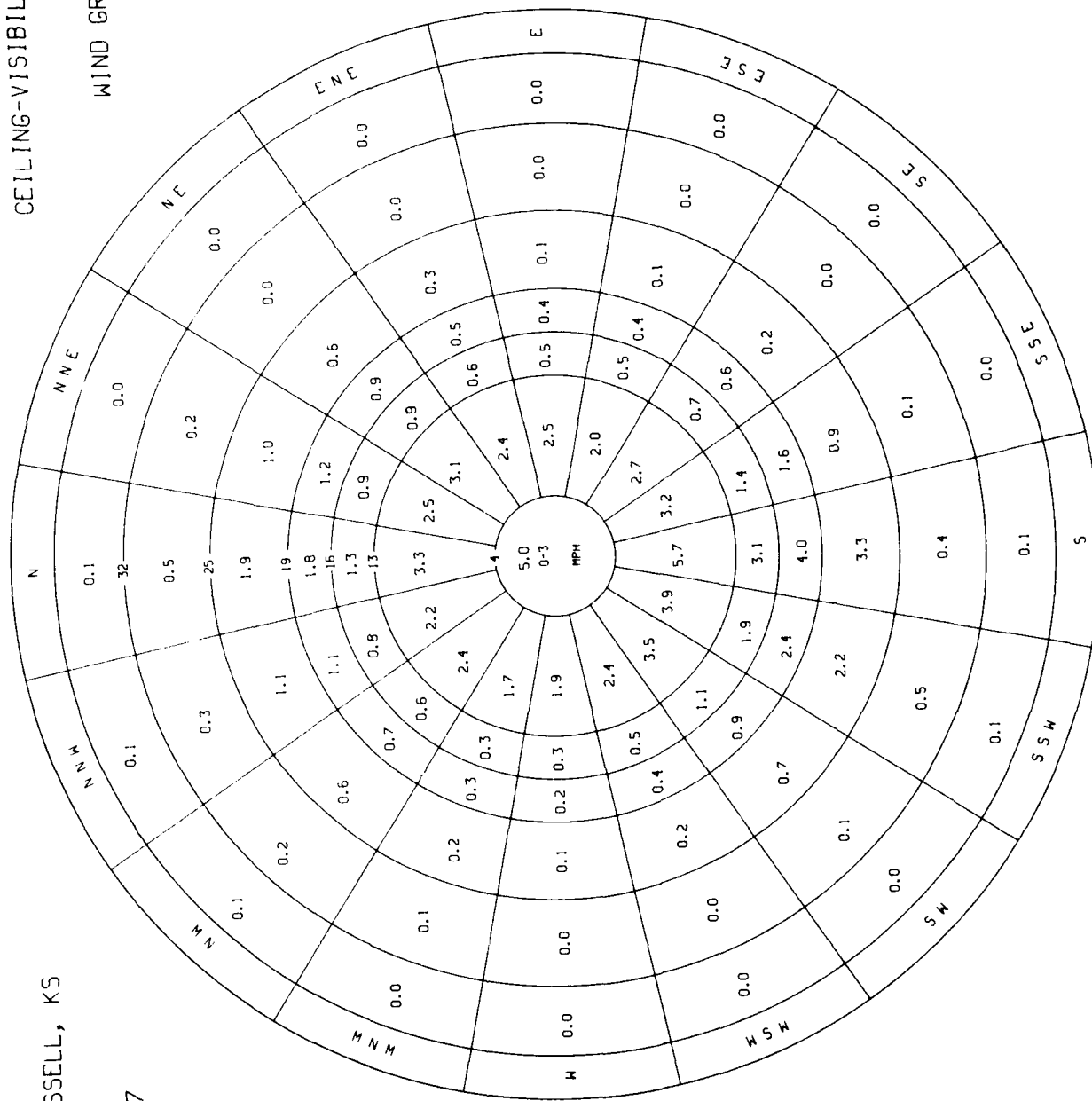
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	4.1	.0	.7	.0	1.4	.0	1.1	.0	1.6	.0	1.8	.1	11.3	18.6
NNE	.0	.0	.0	3.7	.0	1.8	.0	2.3	.0	1.4	.0	.9	.0	.5	.1	10.6	16.1
NE	.0	.5	.1	7.1	.0	2.5	.0	1.1	.0	1.1	.0	.0	.0	.0	.1	12.4	11.7
ENE	.0	.0	.0	2.5	.0	.9	.0	1.4	.0	.5	.0	.0	.0	.0	.1	5.3	13.1
E	.0	.0	.1	7.1	.0	.5	.0	.7	.0	.2	.0	.0	.0	.0	.1	8.5	9.7
ESE	.0	.2	.0	3.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.7	8.4
SE	.0	.0	.0	3.7	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	4.4	9.1
SSE	.0	.0	.0	2.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.8	9.2
S	.0	.5	.1	5.1	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	7.6	10.4
SSW	.0	.2	.0	3.9	.0	.7	.0	.5	.0	.2	.0	.0	.0	.0	.1	5.5	9.6
SW	.0	.5	.0	3.7	.0	.7	.0	.0	.0	.2	.0	.0	.0	.0	.1	5.1	8.8
WSW	.0	.0	.0	2.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.5	8.5
W	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.4
WNW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.6	7.7
NW	.0	.2	.0	2.5	.0	.2	.0	.5	.0	.0	.0	.0	.0	.9	.0	4.4	14.7
NNW	.0	.2	.0	1.6	.0	.0	.0	.2	.0	.9	.0	1.1	.0	.9	.1	5.1	20.7
CALM	.1	8.3													.1	8.3	
TOTAL	1	11.7	.6	54.9	.1	9.9	.1	9.7	.1	6.0	.0	3.7	.0	4.1	1.1	100	11.6

CEILING-VISIBILITY

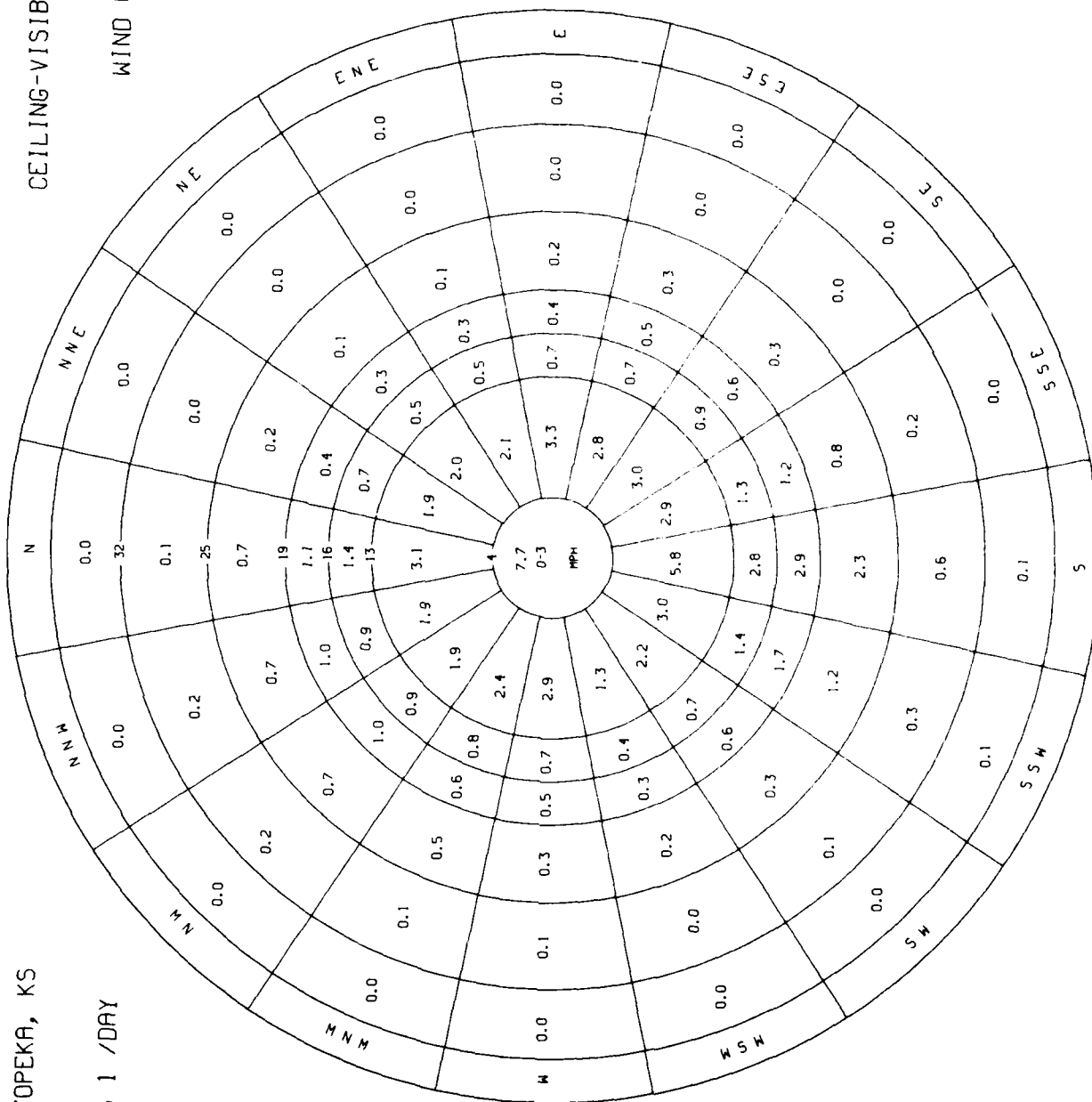
WIND GRAPH

RSL RUSSELL, KS

CLASS 7



TOP TOPEKA, KS
 CLASS 1 / DAY
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 13996

NO. OBS.: 43244

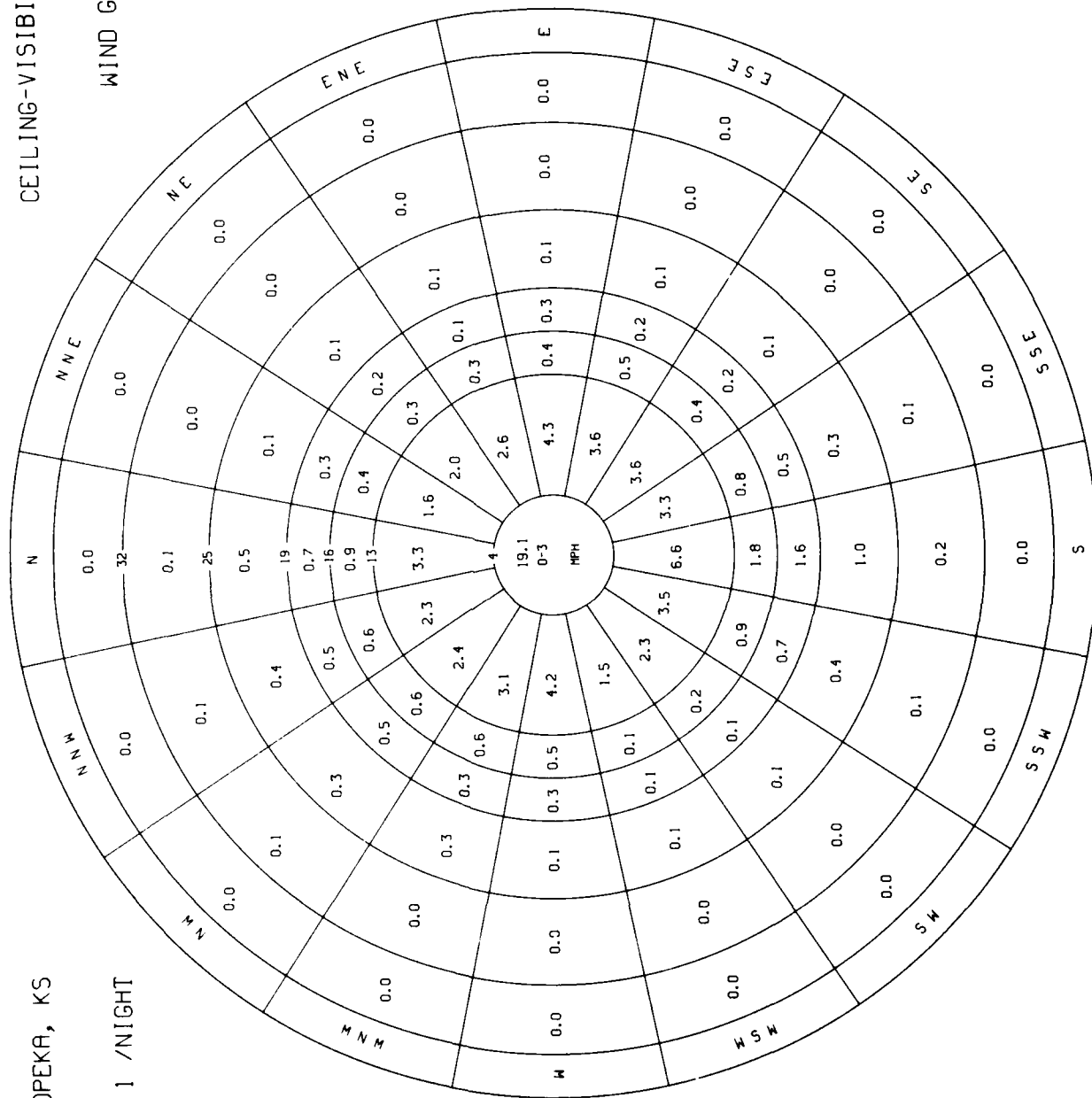
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	3.1	3.4	1.4	1.5	1.1	1.2	.7	.8	.1	.1	.0	.0	6.7 7.4
NNE	.2	.2	1.9	2.1	.7	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.4 3.8
NE	.2	.3	2.0	2.3	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.2 3.6
ENE	.3	.3	2.1	2.4	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.3 3.7
E	.4	.4	3.3	3.7	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	5.1 5.6
ESE	.3	.4	2.8	3.1	.7	.8	.5	.5	.3	.3	.0	.0	.0	.0	4.6 5.1
SE	.3	.3	3.0	3.3	.9	1.0	.6	.6	.3	.3	.0	.0	.0	.0	5.0 5.6
SSE	.2	.3	2.9	3.3	1.3	1.4	1.2	1.4	.8	.9	.2	.2	.0	.0	6.6 7.4
S	.4	.5	5.8	6.5	2.8	3.1	2.9	3.2	2.3	2.5	.6	.6	.1	.1	14.9 16.5
SSW	.2	.2	3.0	3.4	1.4	1.6	1.7	1.9	1.2	1.4	.3	.3	.1	.1	8.0 8.9
SW	.2	.2	2.2	2.5	.7	.8	.6	.7	.3	.4	.1	.1	.0	.0	4.2 4.7
WSW	.1	.1	1.3	1.5	.4	.4	.3	.3	.2	.2	.0	.1	.0	.0	2.3 2.6
W	.2	.3	2.9	3.2	.7	.8	.5	.5	.3	.3	.1	.1	.0	.0	4.6 5.2
WNW	.2	.2	2.4	2.6	.8	.9	.6	.7	.5	.5	.1	.1	.0	.0	4.6 5.1
NW	.2	.2	1.9	2.1	.9	1.0	1.0	1.1	.7	.8	.2	.2	.0	.0	4.9 5.4
NNW	.2	.2	1.9	2.2	.9	1.0	1.0	1.1	.7	.8	.2	.2	.0	.0	4.9 5.5
CALM	3.6	4.1													3.6 4.1
TOTAL	7.7	8.5	42.7	47.4	15.2	16.9	13.3	14.8	8.9	9.9	1.9	2.1	.3	.3	89.9 100

CEILING-VISIBILITY

WIND GRAPH

TOP TOPEKA, KS

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: TOP TOPEKA, KS

CLASS 1 / NIGHT

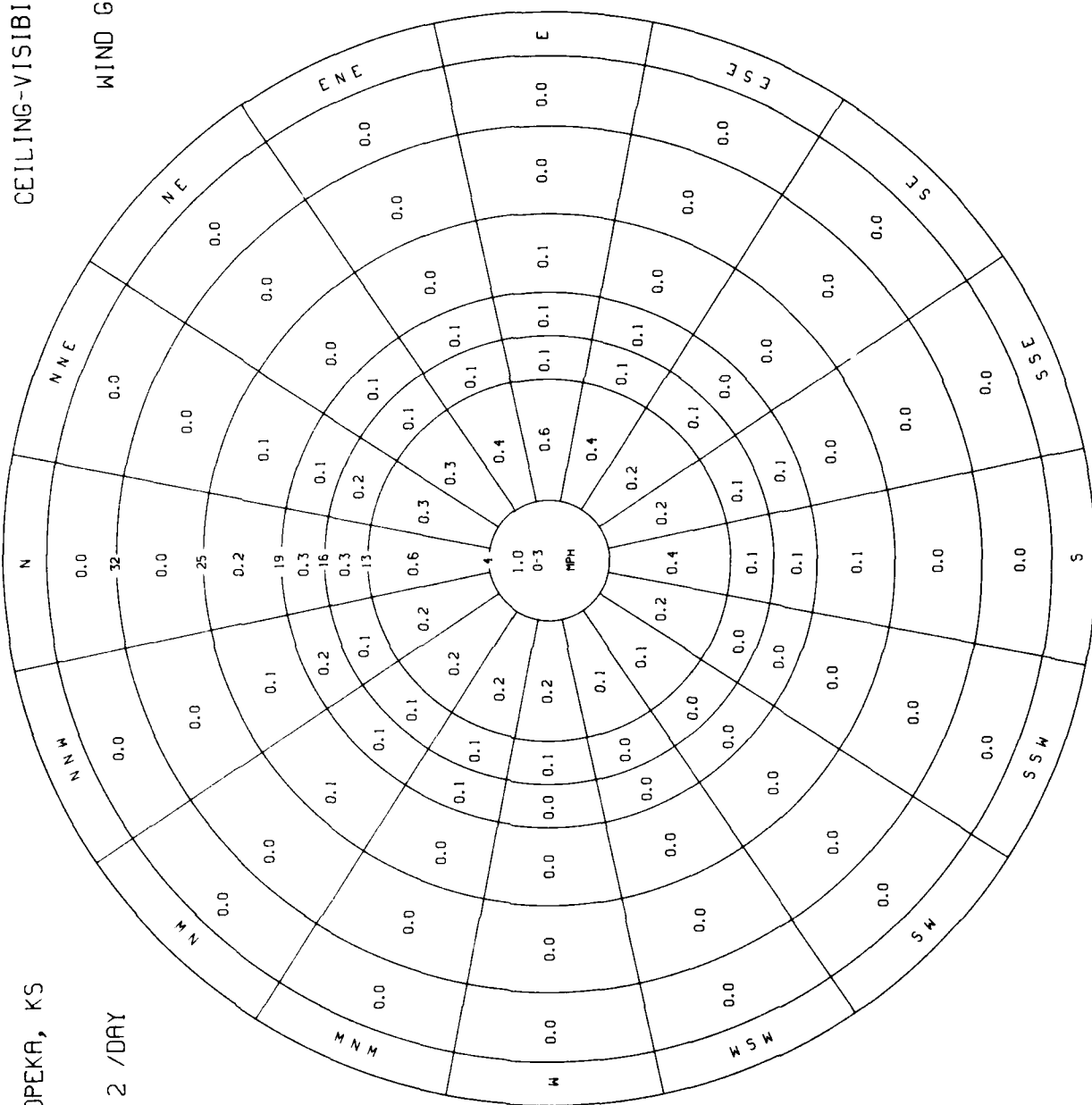
NO. OBS.: 38183

STATION NUMBER: 13996

D I R	SPEED GROUPS (MPH)																				AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D					
N	.4	.4	3.3	3.7	.9	1.0	.7	.8	.5	.5	.1	.1	.0	.0	5.8	6.5	11.1				
NNE	.3	.3	1.6	1.8	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.8	3.1	10.4				
NNE	.5	.5	2.0	2.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.3	8.5				
ENE	.5	.6	2.6	2.9	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	3.7	4.1	8.0				
E	1.0	1.1	4.3	4.8	.4	.5	.3	.3	.1	.2	.0	.0	.0	.0	6.1	6.8	7.9				
ESE	.6	.7	3.6	4.0	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	5.0	5.5	8.3				
SE	.6	.7	3.6	4.0	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.9	5.4	8.3				
SSE	.4	.5	3.3	3.7	.8	.8	.5	.6	.3	.3	.1	.1	.0	.0	5.4	6.0	10.4				
S	.8	.9	6.6	7.3	1.8	2.0	1.6	1.8	1.0	1.1	.2	.2	.0	.0	12.0	13.3	11.5				
SSW	.5	.6	3.5	3.9	.9	1.0	.7	.7	.4	.4	.1	.1	.0	.0	6.1	6.8	10.7				
SW	.6	.6	2.3	2.5	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.2	3.6	7.7				
WSW	.4	.4	1.5	1.6	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.4	7.7				
W	.6	.6	4.2	4.6	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	5.6	6.2	8.7				
WNW	.4	.5	3.1	3.4	.6	.6	.3	.4	.3	.3	.0	.0	.0	.0	4.7	5.3	9.9				
NW	.4	.4	2.4	2.7	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	4.3	4.8	10.9				
NNW	.2	.3	2.3	2.5	.6	.7	.5	.6	.4	.5	.1	.1	.0	.0	4.2	4.7	11.7				
CALM	11.0	12.3													11.0	12.3					
TOTAL	19.1	21.3	50.1	55.7	9.3	10.4	6.7	7.4	3.9	4.3	.8	.8	.1	.1	89.9	100	8.6				

CEILING-VISIBILITY

WIND GRAPH



TOP TOPEKA, KS

CLASS 2 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 2 / DAY

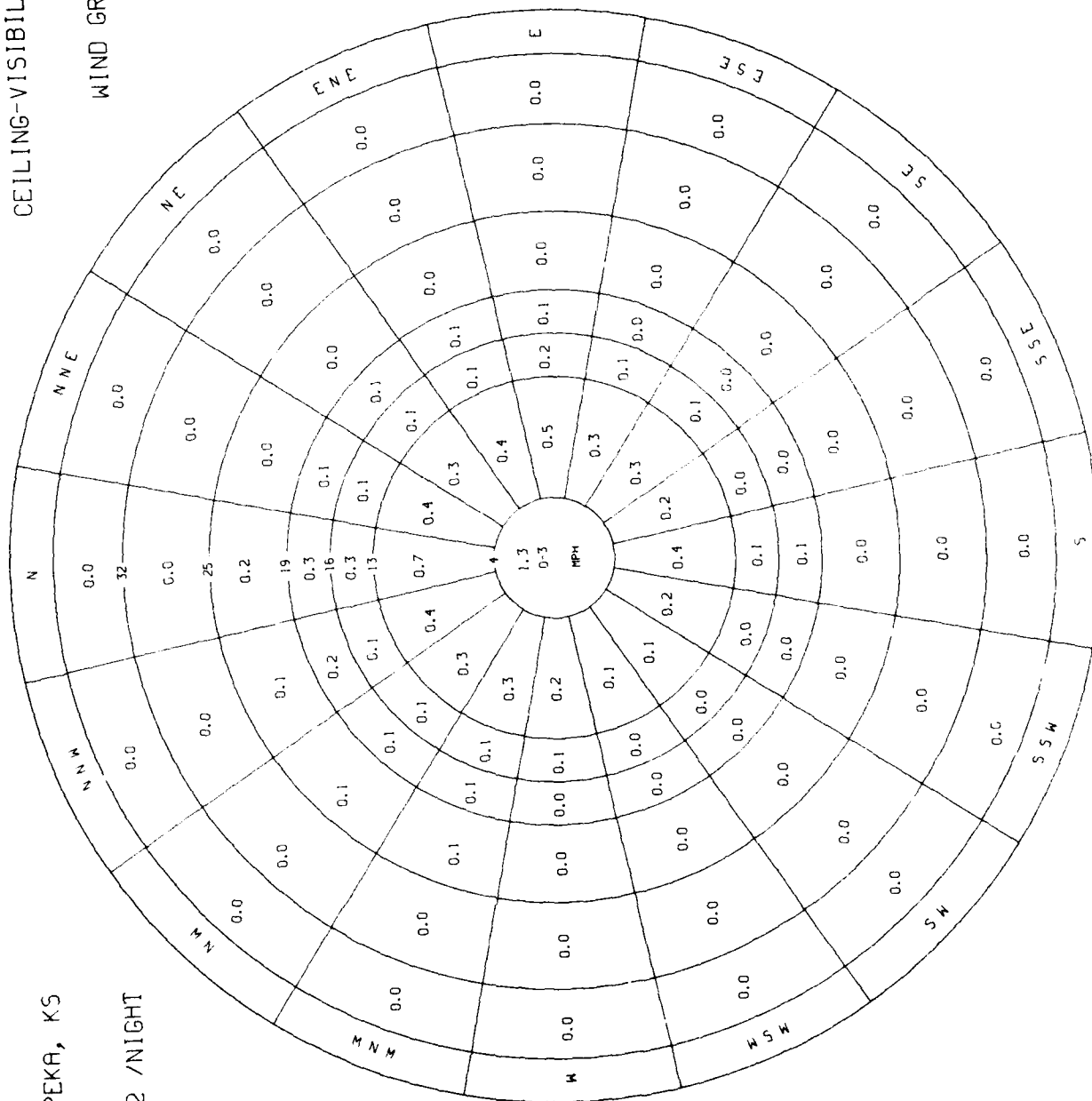
STATION NUMBER: 13996

NO. OBS.: 4849

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.5	.6	5.7	.3	3.4	.3	3.0	.2	2.1	.0	.4	.0	.1	1.5	15.2	13.9
NNE	.0	.4	.3	3.4	.2	1.8	.1	1.0	.1	.7	.0	.1	.0	.0	.7	7.4	12.5
NE	.0	.3	.3	3.3	.1	1.2	.1	.8	.0	.3	.0	.1	.0	.0	.6	6.0	11.6
ENE	.0	.3	.4	3.8	.1	1.1	.1	.6	.0	.4	.0	.2	.0	.0	.7	6.5	11.3
E	.1	.5	.6	6.0	.1	1.4	.1	.9	.1	.7	.0	.2	.0	.0	1.0	9.8	11.1
ESE	.0	.4	.4	3.8	.1	1.4	.1	.8	.0	.3	.0	.1	.0	.0	.7	6.7	11.1
SE	.0	.2	.2	2.4	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.4	4.0	10.8
SSE	.0	.2	.2	2.4	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.7	12.1
S	.0	.2	.4	4.5	.1	1.1	.1	.9	.1	.7	.0	.2	.0	.0	.8	7.7	11.9
SSW	.0	.2	.2	1.7	.0	.4	.0	.5	.0	.3	.0	.0	.0	.0	.3	3.1	11.9
SW	.0	.1	.1	1.1	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.8	10.0
WSW	.0	.1	.1	.9	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	1.3	9.1
W	.0	.3	.2	2.2	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.8	10.6
WNW	.0	.1	.2	1.8	.1	.7	.1	.8	.0	.5	.0	.1	.0	.0	.4	4.0	13.2
NW	.0	.2	.2	2.5	.1	1.2	.1	.9	.1	.8	.0	.1	.0	.0	.6	5.7	12.9
NNW	.0	.2	.2	2.5	.1	1.4	.2	1.6	.1	1.1	.0	.3	.0	.0	.7	7.2	14.6
CALM	.5	5.2													.5	5.2	
TOTAL	1.0	9.6	4.8	47.8	1.8	18.1	1.4	13.5	.9	8.8	.2	1.8	.0	.4	10.1	100	11.6

CEILING-VISIBILITY WIND GRAPH

TOP TOPEKA, KS
CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 13996

NO. OBS.: 4275

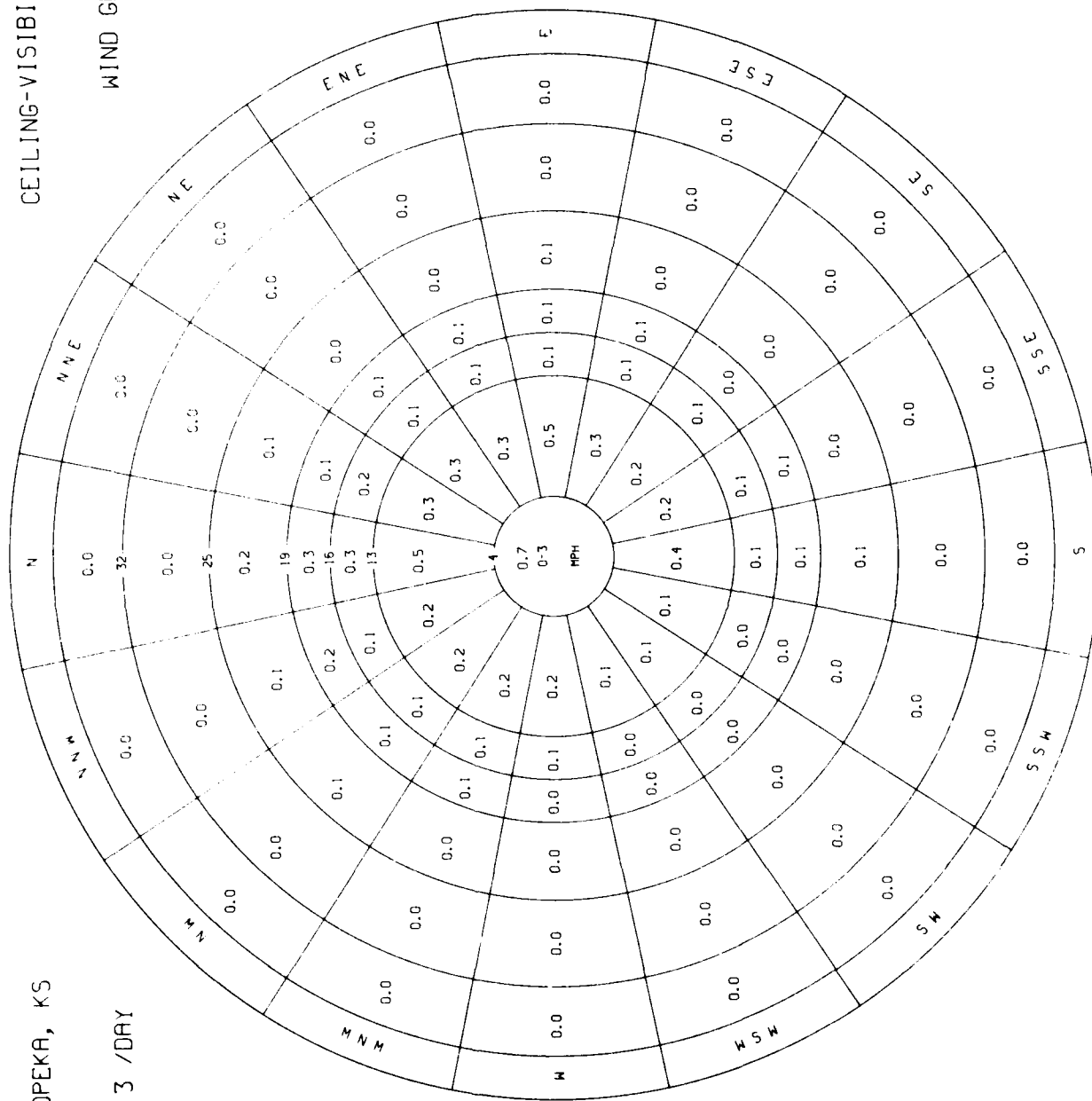
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.7	7.3	.3	3.4	.3	2.8	.2	1.9	.0	.5	.0	.1	1.6	16.2	13.4		
NNE	.0	.2	.4	3.8	.1	1.1	.1	.8	.0	.4	.0	.1	.0	.0	.7	6.5	11.7		
NE	.0	.4	.3	3.4	.1	.9	.1	.7	.0	.4	.0	.0	.0	.0	.6	5.8	10.8		
ENE	.0	.4	.4	4.0	.1	.9	.1	.6	.0	.5	.0	.1	.0	.0	.7	6.5	10.7		
E	.1	.7	.5	5.3	.2	1.5	.1	.8	.0	.3	.0	.0	.0	.0	.9	8.7	10.2		
ESE	.0	.4	.3	3.2	.1	.7	.0	.4	.0	.3	.0	.0	.0	.0	.5	5.0	10.3		
SE	.0	.2	.3	2.9	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	4.0	9.3		
SSE	.0	.4	.2	2.4	.0	.4	.0	.4	.0	.1	.0	.0	.0	.0	.4	3.8	10.0		
S	.0	.3	.4	3.7	.1	.9	.1	.7	.0	.4	.0	.2	.0	.0	.6	6.2	11.2		
SSW	.0	.1	.2	2.4	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.3	3.1	9.6		
SW	.0	.1	.1	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.6	9.7		
WSW	.0	.4	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.4	8.9		
W	.0	.4	.2	2.0	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.6	9.7		
WNW	.0	.3	.3	2.7	.1	.8	.1	.7	.1	.5	.0	.1	.0	.0	.5	5.1	11.9		
NW	.0	.4	.3	3.1	.1	1.0	.1	1.1	.1	.7	.0	.0	.0	.0	.6	6.3	12.0		
NNW	.0	.4	.4	3.7	.1	1.5	.2	1.8	.1	1.5	.0	.2	.0	.0	.9	9.1	13.8		
CALM	.7	7.2													.7	7.2			
TOTAL	1.3	12.5	5.2	51.6	1.5	15.2	1.2	11.5	.8	7.6	.1	1.4	.0	.2	10.1	100	10.6		

CEILING-VISIBILITY

WIND GRAPH

TOP TOPEKA, KS

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

CLASS 3 / DAY

NO. OBS.: 4271

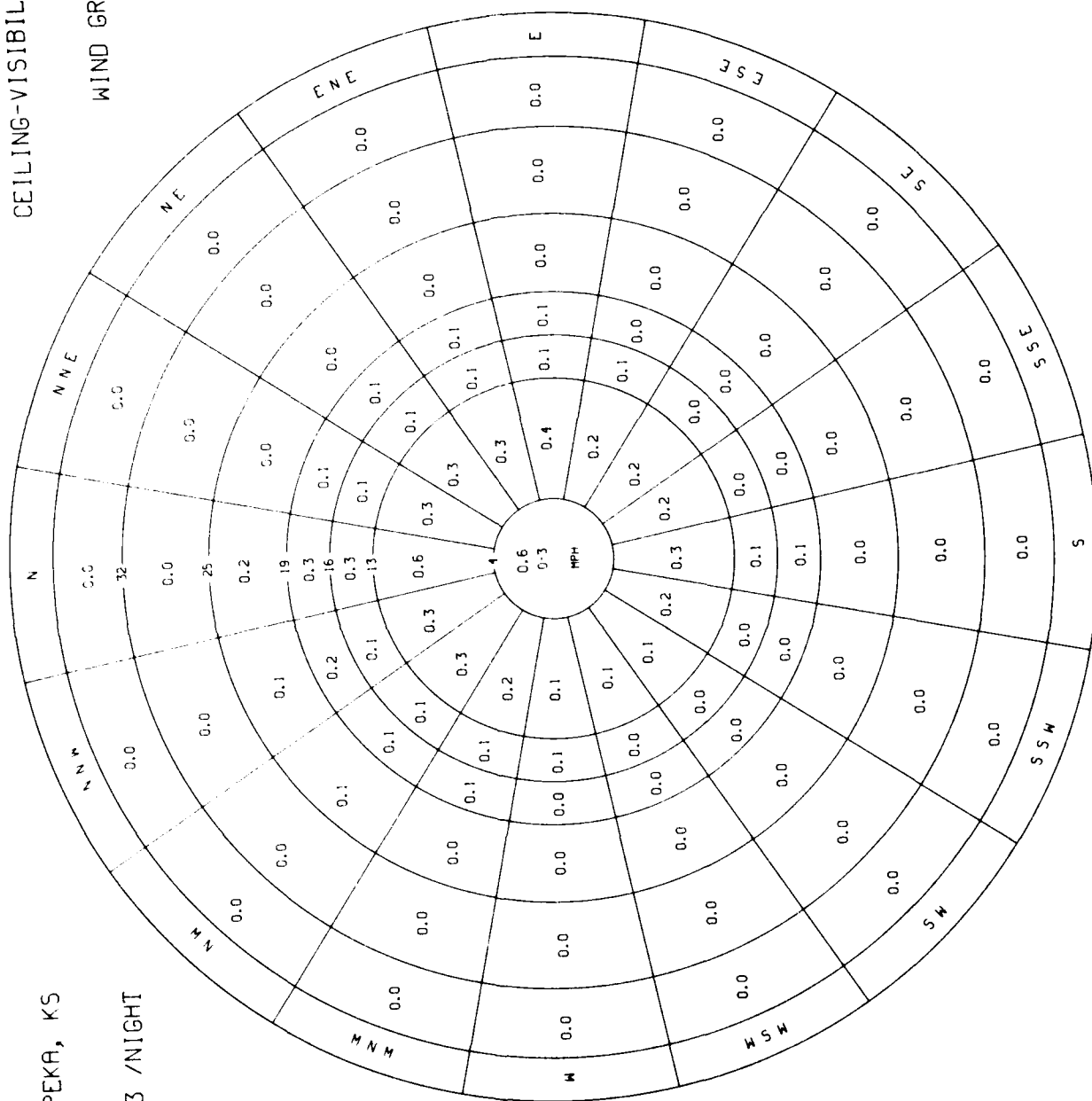
STATION NAME: TSP DEER A. MO

STATION NUMBER: 13996

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.4	.5	5.7	.3	3.5	.3	3.3	.2	2.2	.0	.4	.0	.1	1.4	15.5	14.0
NNE	.0	.3	.3	3.3	.2	1.8	.1	1.0	.1	.8	.0	.0	.0	.0	.6	7.3	12.7
NE	.0	.2	.3	3.3	.1	1.2	.1	.8	.0	.3	.0	.0	.0	.0	.5	5.9	11.8
ENE	.0	.3	.3	3.7	.1	1.2	.1	.7	.0	.4	.0	.2	.0	.0	.6	6.4	11.6
E	.0	.4	.5	5.6	.1	1.4	.1	.9	.1	.7	.0	.2	.0	.0	.8	9.2	11.4
ESE	.0	.3	.3	3.7	.1	1.4	.1	.8	.0	.3	.0	.1	.0	.0	.6	6.6	11.5
SE	.0	.2	.2	2.5	.1	1.0	.0	.4	.0	.2	.0	.0	.0	.0	.4	4.2	10.9
SSE	.0	.2	.2	2.6	.1	1.0	.1	.8	.0	.4	.0	.1	.0	.0	.4	5.0	12.3
S	.0	.2	.4	4.7	.1	1.3	.1	1.0	.1	.8	.0	.2	.0	.0	.7	8.2	12.1
SSW	.0	.2	.1	1.7	.0	.4	.0	.5	.0	.4	.0	.0	.0	.0	.3	3.2	12.2
SW	.0	.1	.1	1.1	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.8	9.9
WSW	.0	.1	.1	.9	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	1.3	9.6
W	.0	.3	.2	2.1	.1	.7	.0	.3	.0	.3	.0	.0	.0	.0	.3	3.7	11.1
WNW	.0	.0	.2	1.8	.1	.8	.1	.8	.0	.5	.0	.1	.0	.0	.4	4.2	13.6
NW	.0	.2	.2	2.5	.1	1.4	.1	1.0	.1	.9	.0	.1	.0	.0	.5	6.0	13.2
NNW	.0	.2	.2	2.6	.1	1.6	.2	1.7	.1	1.1	.0	.3	.0	.0	.7	7.6	14.5
CALM	.3	3.8													.3	3.8	
TOTAL	.7	7.4	4.2	47.7	1.7	19.0	1.3	14.4	.8	9.3	.2	1.7	.0	.4	8.9	100	12.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: TOP TOPEKA, KS

CLASS 3 / NIGHT

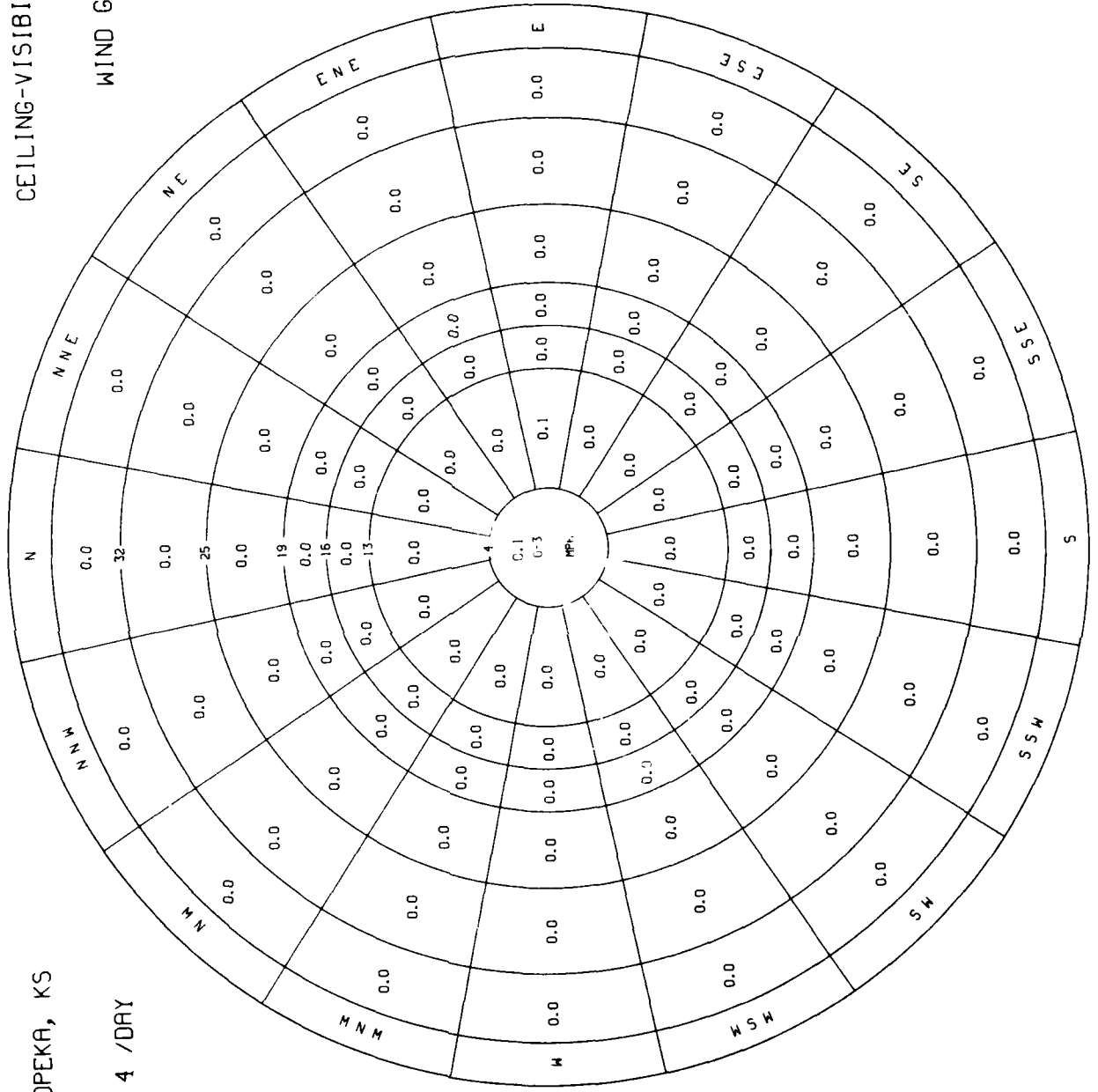
NO. OBS.: 3450

STATION NUMBER: 13996

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.6	7.8	.3	4.1	.3	3.3	.2	2.3	.0	.5	.0	.1	1.5	18.3	13.6
NNE	.0	.1	.3	3.8	.1	1.2	.1	.9	.0	.5	.0	.1	.0	.0	.5	6.7	12.2
NE	.0	.2	.3	3.4	.1	1.0	.1	.8	.0	.5	.0	.0	.0	.0	.5	5.8	11.4
ENE	.0	.3	.3	3.7	.1	.9	.1	.7	.0	.6	.0	.2	.0	.0	.5	6.3	11.5
E	.0	.3	.4	4.8	.1	1.6	.1	.8	.0	.4	.0	.0	.0	.0	.6	7.9	10.8
ESE	.0	.3	.2	3.0	.1	.8	.0	.3	.0	.4	.0	.1	.0	.0	.4	4.8	10.8
SE	.0	.3	.2	2.8	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.3	4.0	9.6
SSE	.0	.2	.2	2.3	.0	.4	.0	.4	.0	.1	.0	.0	.0	.0	.3	3.6	10.5
S	.0	.2	.3	3.8	.1	.9	.1	.8	.0	.4	.0	.2	.0	.0	.5	6.4	11.6
SSW	.0	.1	.2	2.3	.0	.5	.0	.1	.0	.1	.0	.0	.0	.0	.3	3.1	9.8
SW	.0	.1	.1	1.2	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.8	9.6
WSW	.0	.3	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.4	9.8
W	.0	.3	.1	1.7	.1	.8	.0	.3	.0	.3	.0	.0	.0	.0	.3	3.4	10.7
WNW	.0	.2	.2	2.7	.1	.9	.1	.8	.0	.6	.0	.1	.0	.1	.4	5.3	12.7
NW	.0	.3	.3	3.3	.1	1.2	.1	1.4	.1	.8	.0	.0	.0	.0	.6	7.0	12.4
NNW	.0	.3	.3	4.0	.1	1.7	.2	2.0	.1	1.8	.0	.3	.0	.0	.8	10.1	14.1
CALM	.3	4.0													.3	4.0	
TOTAL	.6	7.8	4.2	51.4	1.4	17.0	1.1	3.0	.7	9.1	.1	1.5	.0	.2	8.1	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 4 / DAY

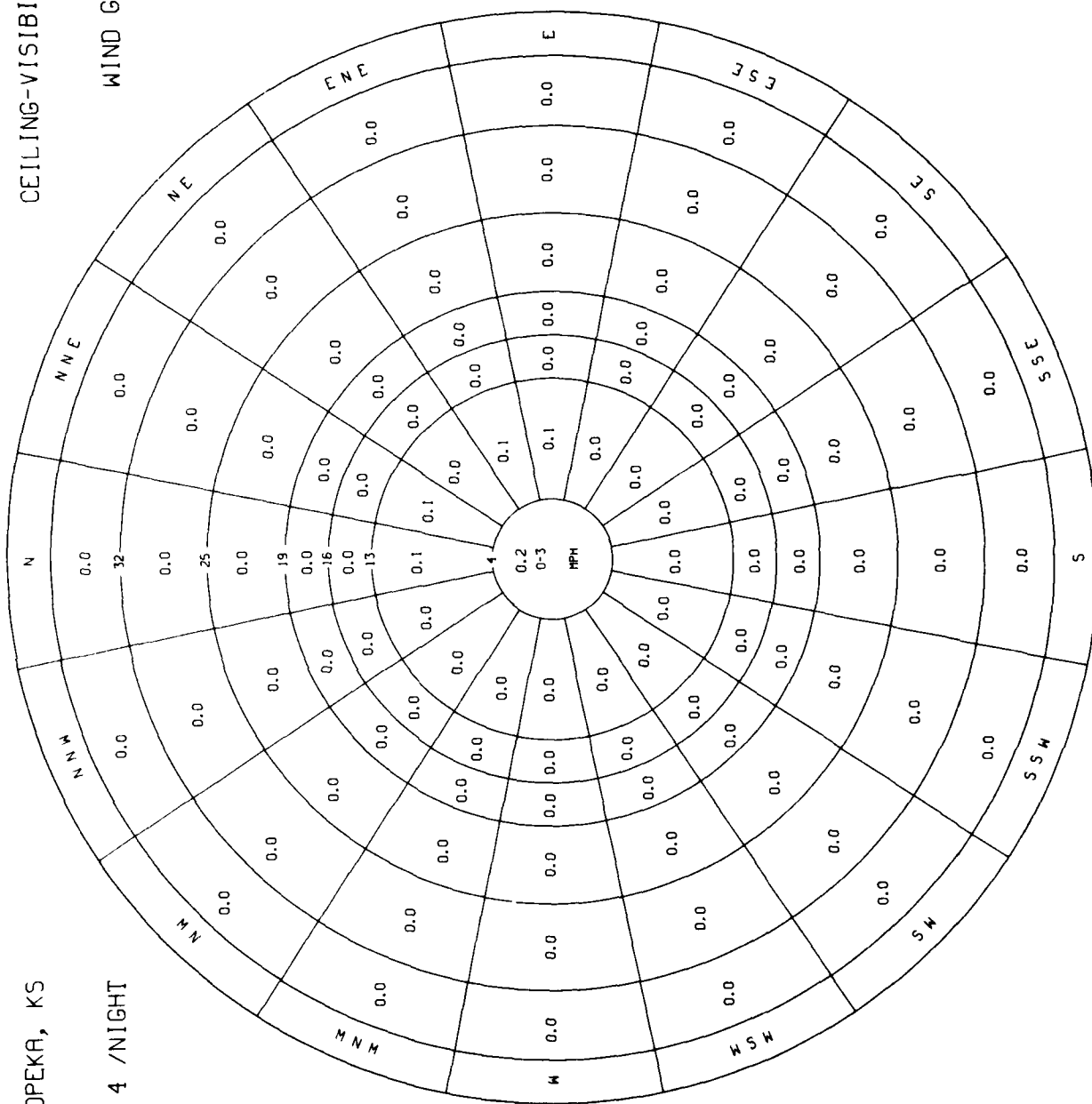
STATION NUMBER: 13996

NO. OBS.: 374

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	1.1	.0	6.1	.0	3.5	.0	1.6	.0	2.4	.0	.5	.0	.0	.1	15.2	12.9
NNE	.0	.8	.0	5.1	.0	2.9	.0	1.1	.0	.5	.0	.0	.0	.0	.1	10.4	11.4
NNE	.0	1.1	.0	3.7	.0	1.6	.0	1.3	.0	.5	.0	.0	.0	.0	.1	8.3	11.2
ENE	.0	.3	.0	4.8	.0	.8	.0	.3	.0	.3	.0	.3	.0	.0	.1	6.7	10.6
E	.0	1.1	.1	10.2	.0	2.1	.0	1.3	.0	.0	.0	.3	.0	.0	.1	15.0	10.0
ESE	.0	1.3	.0	3.7	.0	2.7	.0	.3	.0	.0	.0	.0	.0	.0	.1	8.0	9.5
SE	.0	.3	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	9.1
SSE	.0	.5	.0	1.1	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	2.1	8.1
S	.0	.5	.0	2.9	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.3	8.8
SSW	.0	.0	.0	2.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.9
SW	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.3	13.8
WSW	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.7
W	.0	.5	.0	2.7	.0	.8	.0	.0	.0	.0	.0	.3	.0	.0	.0	4.3	8.9
WNW	.0	.3	.0	1.3	.0	.5	.0	.3	.0	.3	.0	.0	.0	.0	.0	2.7	9.4
NW	.0	.0	.0	2.4	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	3.2	9.8
NNW	.0	.0	.0	1.3	.0	.5	.0	.8	.0	1.3	.0	.8	.0	.0	.0	4.8	17.1
CALM	.1	7.2													.1	7.2	
TOTAL	1	15.5	.4	51.1	.1	17.4	.1	8.0	.0	5.3	.0	2.4	.0	.3	.8	100	10.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: TOP TOPEKA, KS

CLASS 4 / NIGHT

NO. OBS.: 446

STATION NUMBER: 13996

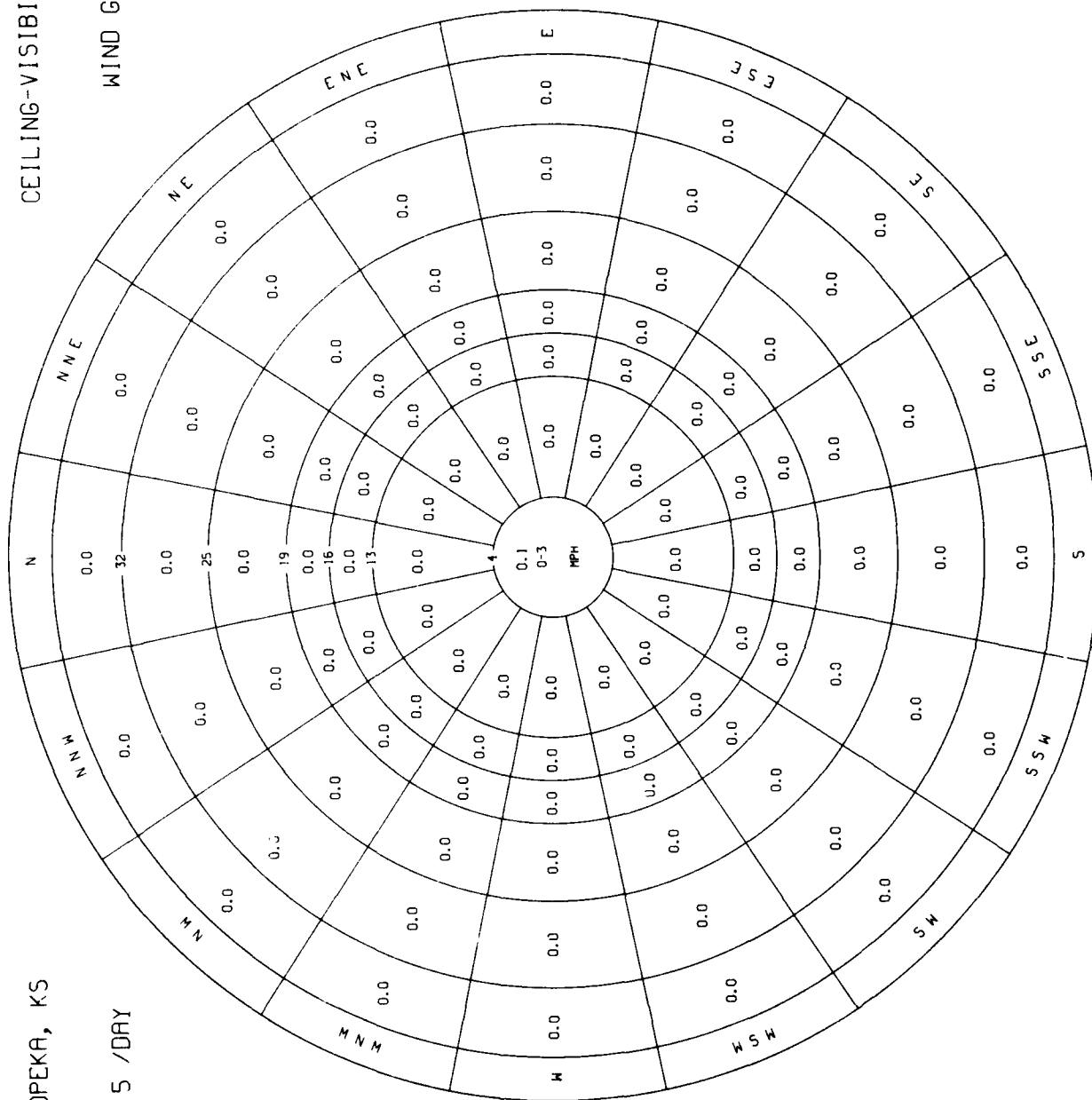
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.1	5.6	.0	1.3	.0	.9	.0	.4	.0	.4	.0	.2	.1 9.2
NNE	.0	.7	.1	5.4	.0	1.1	.0	.7	.0	.4	.0	.0	.0	.0	.1 8.3
NNE	.0	.7	.0	2.7	.0	.9	.0	1.1	.0	.0	.0	.0	.0	.0	.1 5.4
ENE	.0	1.1	.1	5.8	.0	1.6	.0	.4	.0	.0	.0	.0	.0	.0	.1 9.0
E	.0	2.0	.1	7.6	.0	1.3	.0	1.1	.0	.2	.0	.0	.0	.2	.1 12.6
ESE	.0	.4	.0	4.7	.0	1.1	.0	.7	.0	.2	.0	.0	.0	.0	.1 7.2
SE	.0	.0	.0	3.8	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0 4.7
SSE	.0	.4	.0	3.1	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0 4.7
S	.0	.9	.0	2.7	.0	.7	.0	.9	.0	.0	.0	.0	.0	.0	.1 5.2
SSW	.0	.0	.0	2.5	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0 3.1
SW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0 9
WSW	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9
W	.0	.2	.0	2.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0 2.9
WNW	.0	.7	.0	2.7	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0 4.0
NW	.0	.2	.0	2.0	.0	.2	.0	.2	.0	.4	.0	.2	.0	.0	.0 3.4
NNW	.0	1.6	.0	3.8	.0	.4	.0	1.3	.0	.2	.0	.0	.0	.2	.1 7.6
CALM	.1	11.0			.1	10.8	.1	9.0	.0	2.5	.0	.7	.0	.9	.1 11.0
TOTAL	.2	20.9	.6	55.4	.1	10.8	.1	9.0	.0	2.5	.0	.7	.0	.9	1.1 100
															8.8

CEILING-VISIBILITY

WIND GRAPH

TOP TOPEKA, KS

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 13996

NO. OBS.: 88

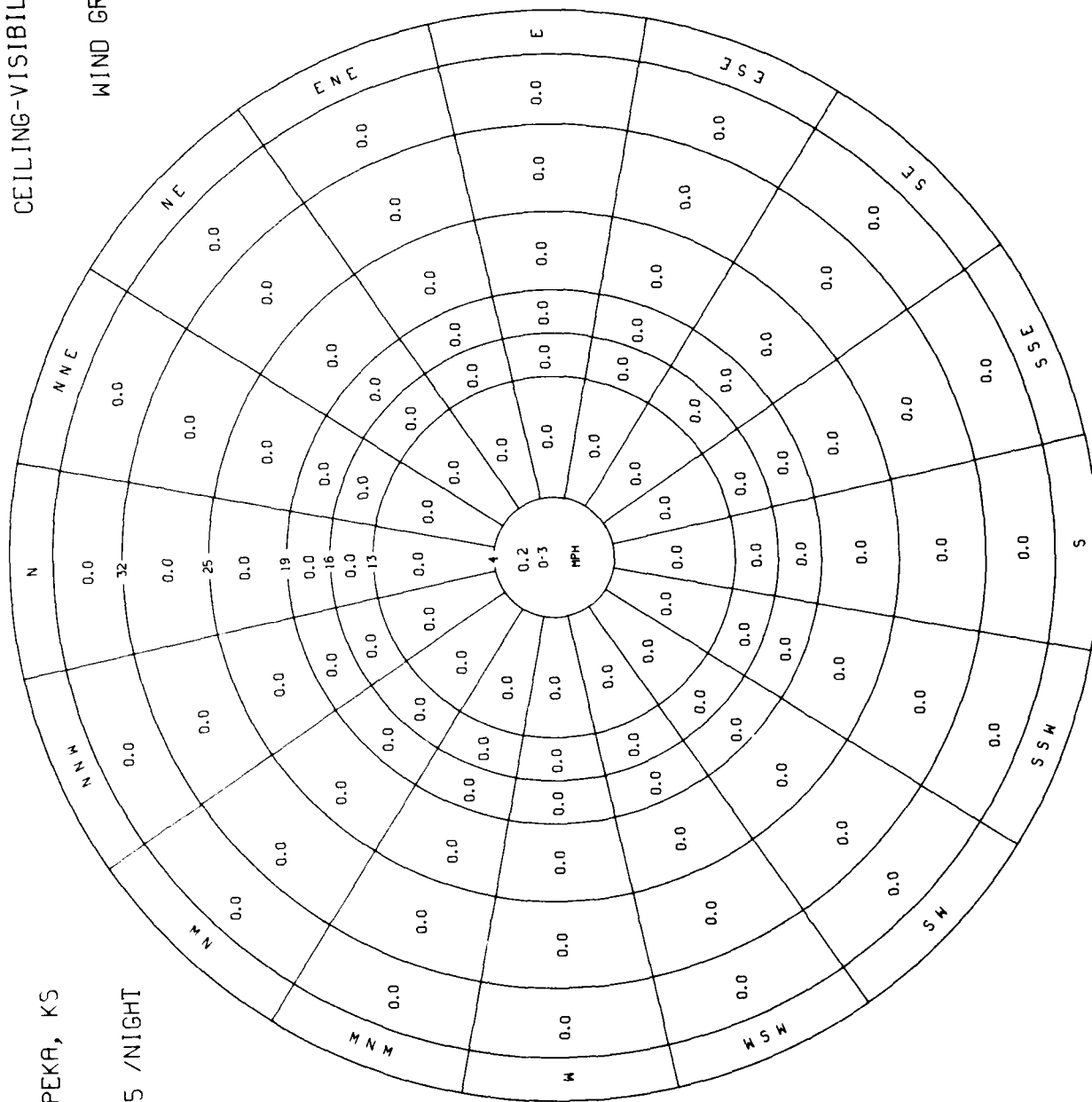
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.3	.0	5.7	.0	2.3	.0	1.1	.0	2.3	.0	1.1	.0	.0	.0 14.8
NNE	.0	.0	.0	3.4	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0 5.7
NE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0 4.5
ENE	.0	.0	.0	4.5	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0 5.7
E	.0	2.3	.0	3.4	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0 8.0
ESE	.0	.0	.0	6.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.0
SE	.0	1.1	.0	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0 4.5
SSE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
S	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
SSW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
SW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
WSW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
W	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
WNW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
NW	.0	1.1	.0	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0 4.5
NNW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	2.3	.0	1.1	.0	.0	.0 5.7
CALM	.0	21.6													.0 21.6
TOTAL	.1	33.0	.1	46.6	.0	3.4	.0	5.7	.0	6.8	.0	4.5	.0	.0	.2 100
															8.1

CEILING-VISIBILITY

WIND GRAPH

TOP TOPEKA, KS

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 5 / NIGHT

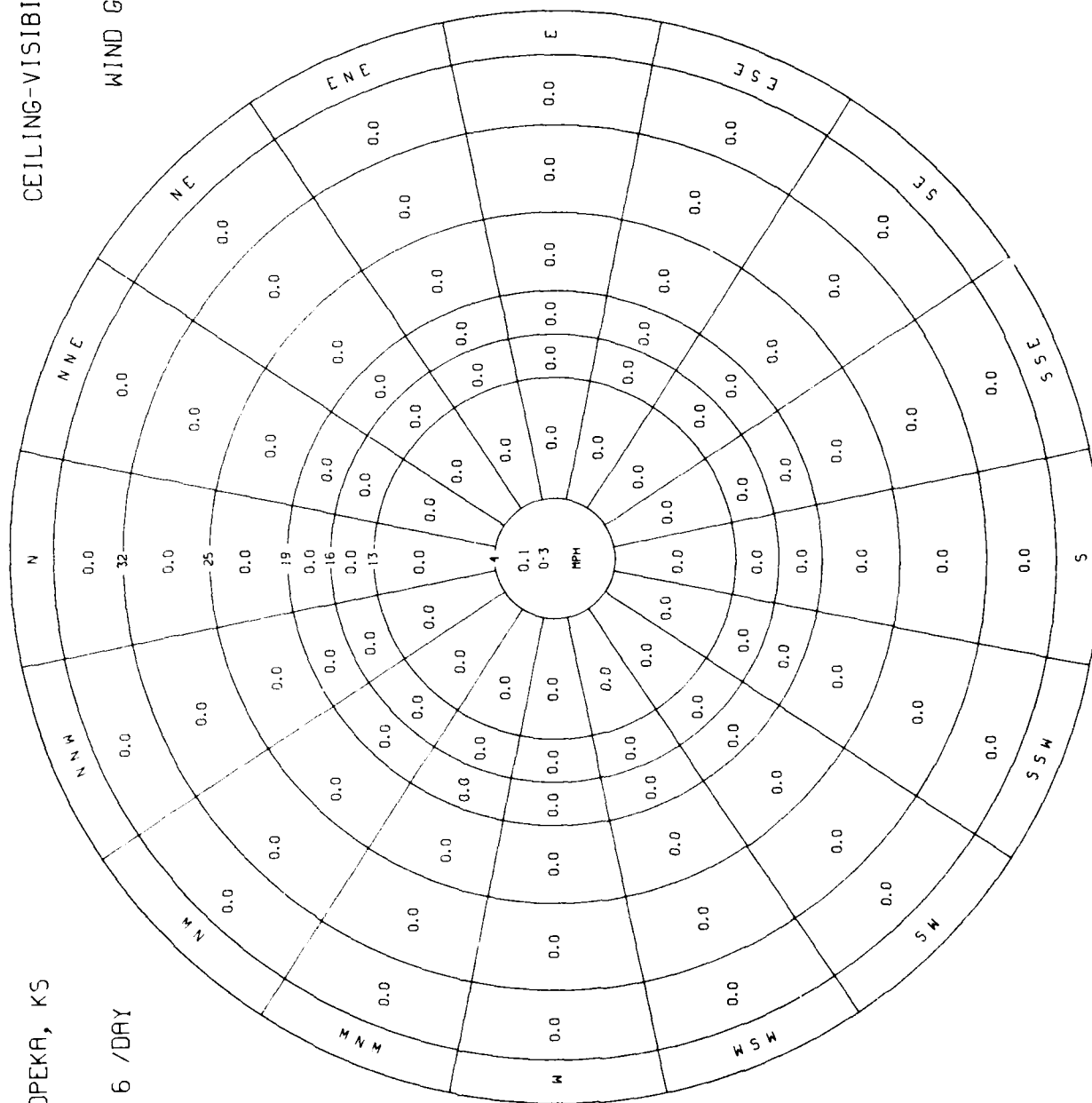
NO. OBS.: 193

STATION NUMBER: 13996

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.0	.0	3.6	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.1	8.6
NNE	.0	.0	.0	3.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.7
NE	.0	1.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	6.9
ENE	.0	.5	.0	5.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.8
E	.0	1.0	.0	6.7	.0	1.0	.0	1.6	.0	.0	.5	.0	.0	.0	.0	10.9	9.9
ESE	.0	1.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.6
SE	.0	.0	.0	3.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.6
SSE	.0	1.0	.0	4.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.7
S	.0	1.0	.0	4.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	8.0
SSW	.0	.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.3
SW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.5
WSW	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.7
W	.0	1.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.0
WNW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.7
NW	.0	1.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.3
NNW	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	10.5
CALM	.1	25.9												.1	25.9		
TOTAL	.2	36.3	.3	56.5	.0	4.1	.0	2.6	.0	.0	.0	.5	.0	.0	.5	100	5.4

TOP TOPEKA, KS

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 6 / DAY

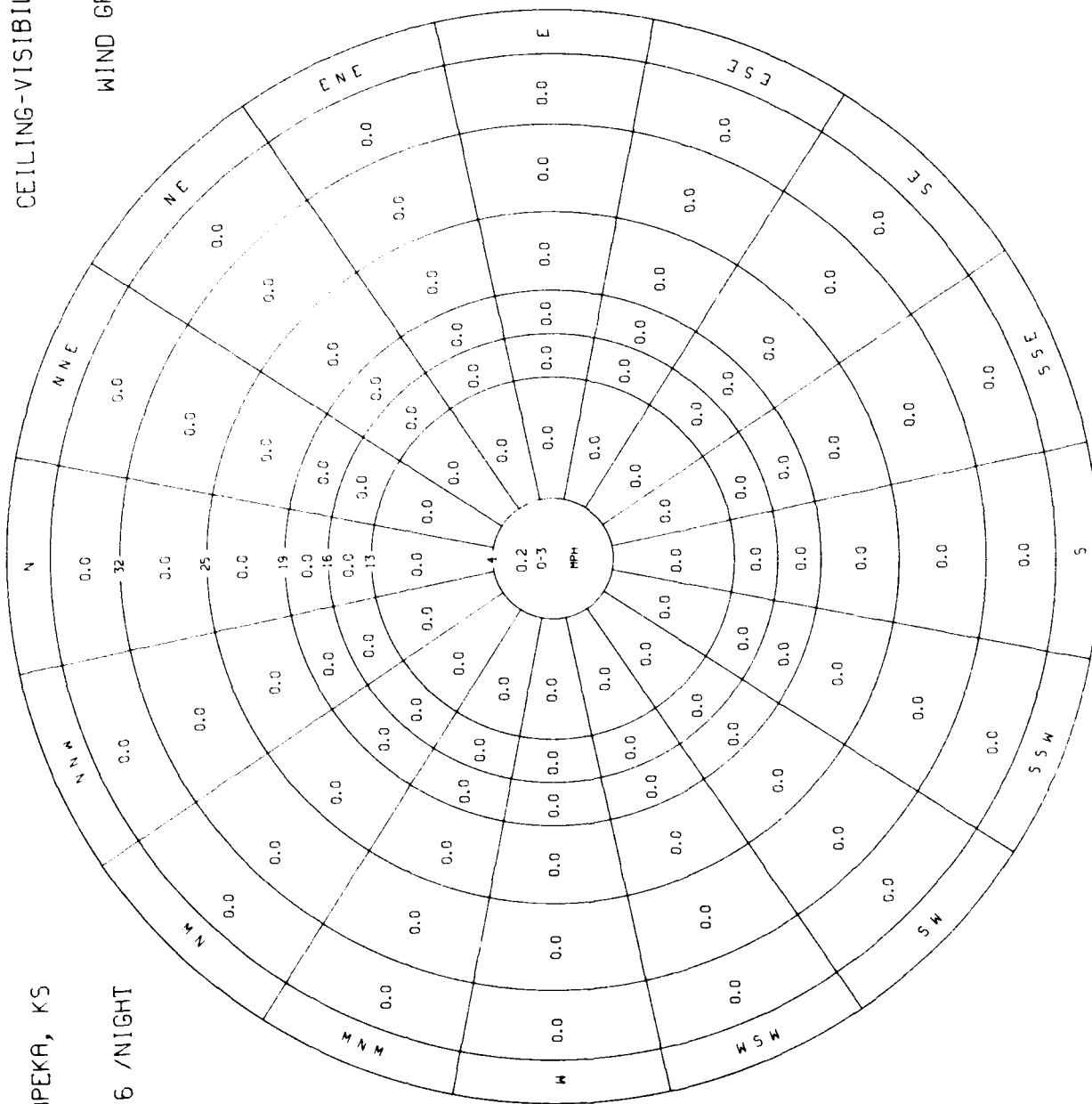
STATION NUMBER: 13996

NO. OBS.: 116

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	1.7	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0 3.4
NNE	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
NE	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0 6.0
ENE	.0	2.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.8
E	.0	1.7	.0	12.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 13.8
ESE	.0	1.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
SSE	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
S	.0	.9	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
SSW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
W	.0	1.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
WNW	.0	1.7	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0 3.4
NW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
NNW	.0	.9	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0 2.6
CALM	.1	38.8													.1 38.8
TOTAL	.1	56.0	.1	40.5	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.2 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOP TOPEKA, KS

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 13996

NO. OBS.: 186

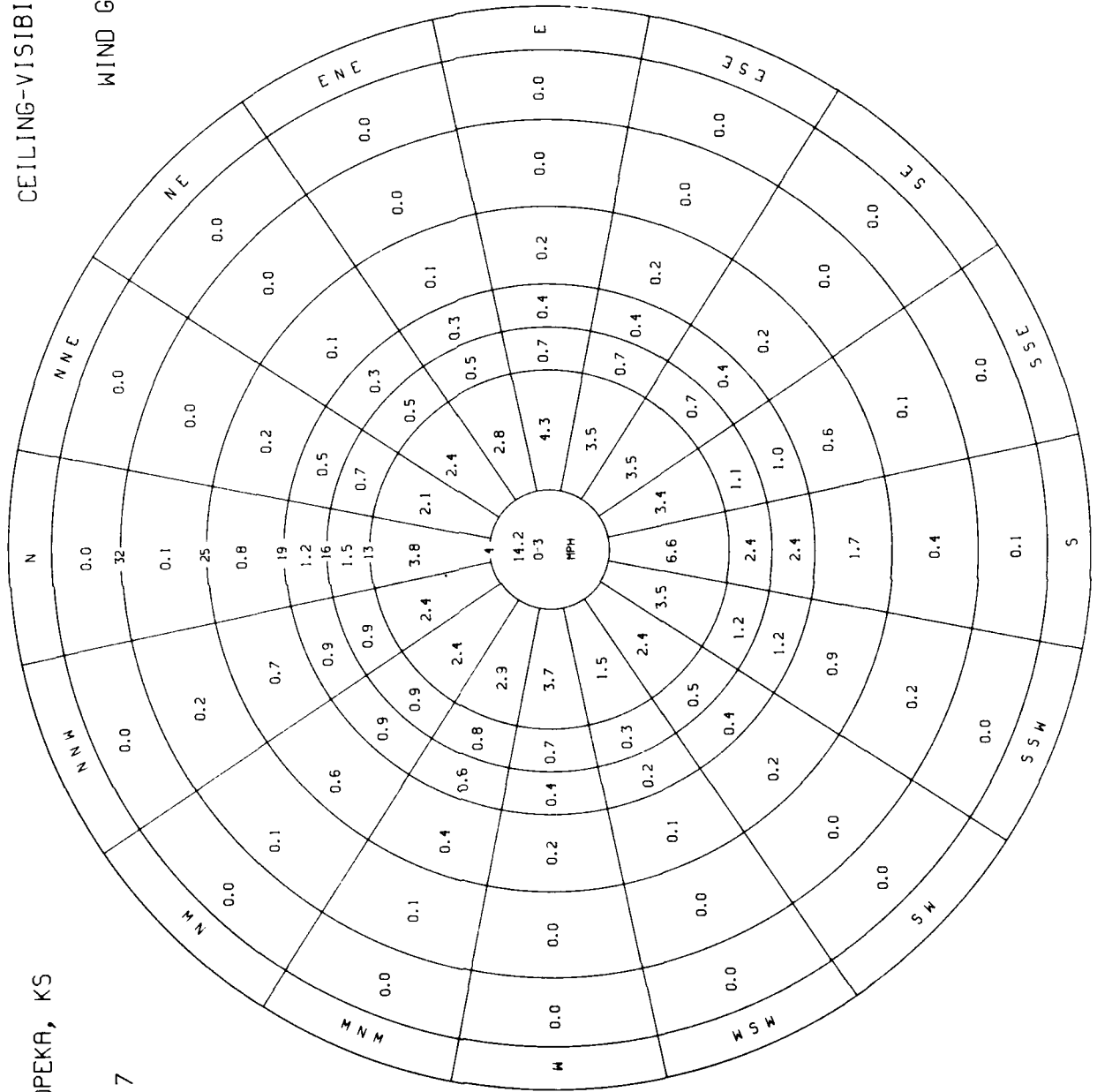
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.1	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	5.9	7.0
NNE	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.0
NE	.0	1.6	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.3
ENE	.0	1.1	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.9
E	.0	3.8	.0	7.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3	6.1
ESE	.0	1.1	.0	2.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.4
SE	.0	.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.8
SSE	.0	2.2	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.8
S	.0	.0	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.4
SSW	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.2
SW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.0
WSW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.0
W	.0	2.2	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.9
WNW	.0	1.6	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	5.9
NW	.0	1.6	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	4.7
NNW	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.0
CALM	.2	37.6													.2	37.6	
TOTAL	.2	55.9	.2	40.9	.0	2.7	.0	.0	.0	.0	.0	.5	.0	.0	.4	100	3.8

CEILING-VISIBILITY

WIND GRAPH

TOP TOPEKA, KS

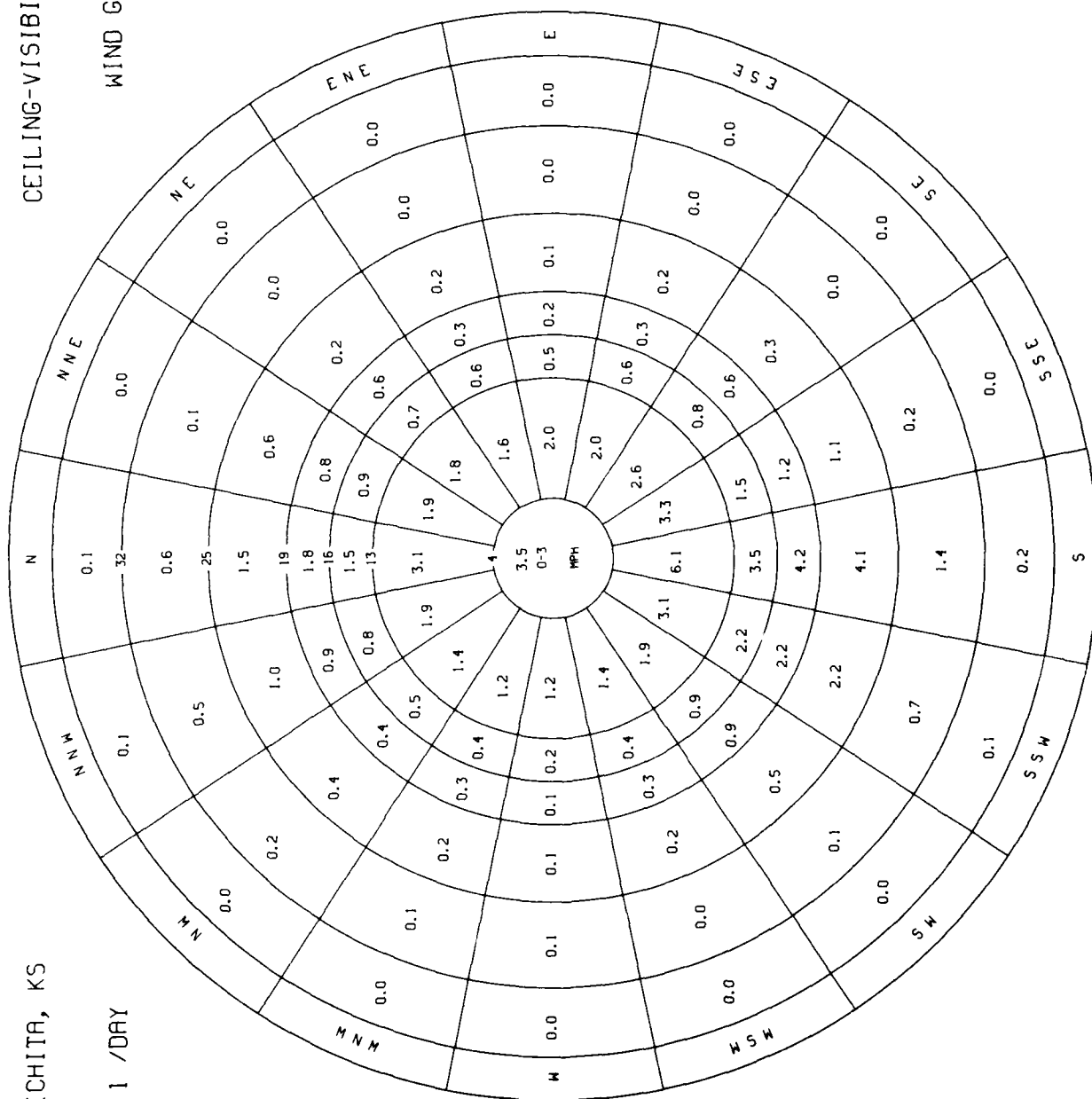
CLASS 7



CEILING-VISIBILITY WIND GRAPH

ICT WICHITA, KS

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1954-1978

STATION NAME: ICT WICHITA, KS

CLASS 1 / DAY

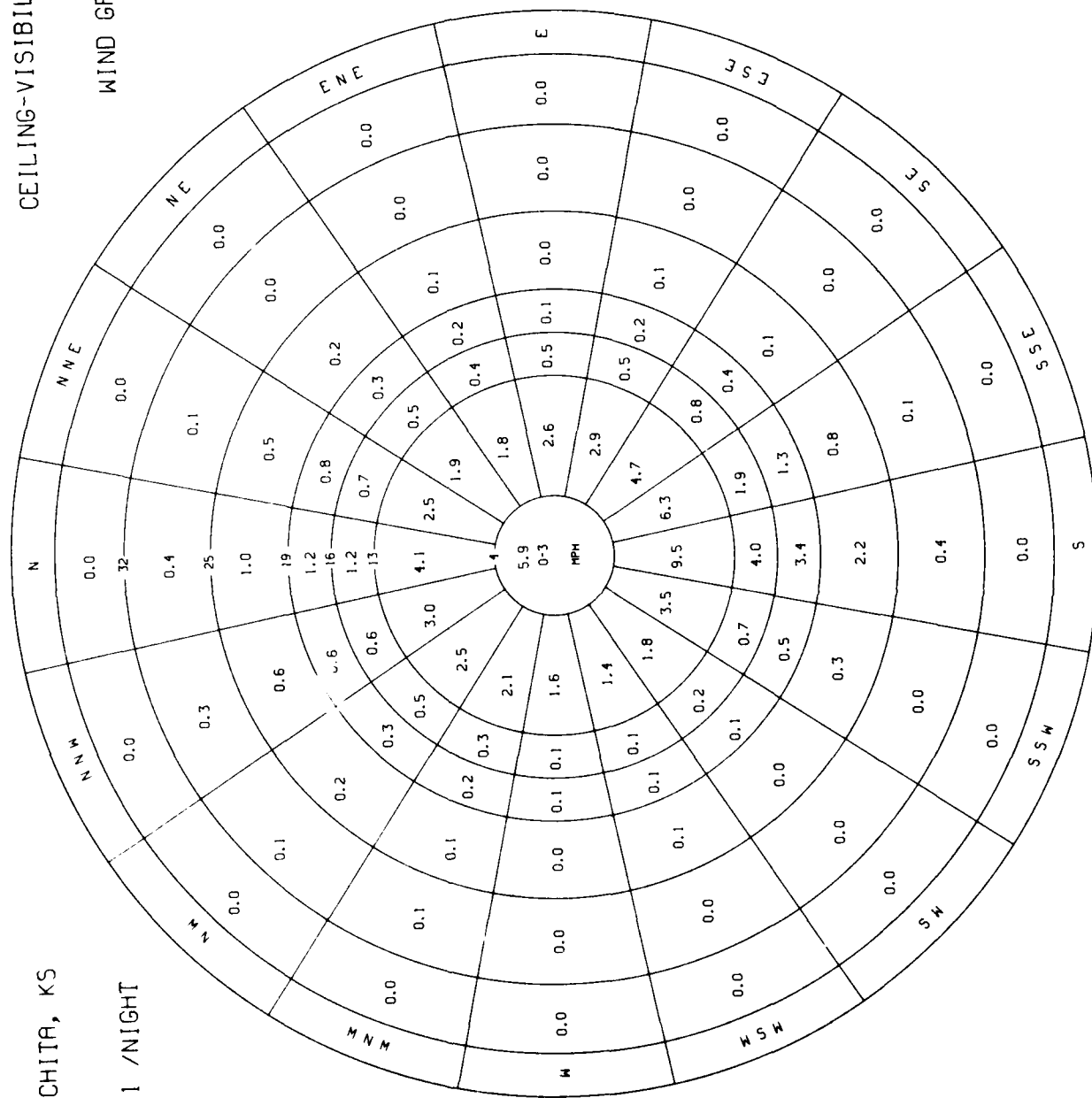
NO. OBS.: 35245

STATION NUMBER: 03928

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.2	3.1	3.5	1.5	1.7	1.8	2.0	1.5	1.7	.6	.6	.1	.1	9.8	9.9	14.9
NNE	.1	.1	1.9	2.1	.9	1.1	.8	.9	.6	.7	.1	.1	.0	.0	4.5	5.0	13.6
NE	.1	.1	1.8	2.0	.7	.8	.6	.6	.2	.3	.0	.0	.0	.0	3.4	3.8	12.0
ENE	.1	.1	1.6	1.8	.6	.6	.3	.3	.2	.2	.0	.0	.0	.0	2.8	3.1	11.3
E	.1	.1	2.0	2.3	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.3	10.2
ESE	.1	.1	2.0	2.3	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	3.3	3.7	11.0
SE	.1	.2	2.6	2.9	.8	.9	.6	.7	.3	.3	.0	.0	.0	.0	4.5	5.0	11.4
SSE	.1	.2	3.3	3.7	1.5	1.7	1.2	1.4	1.1	1.3	.2	.2	.0	.0	7.6	8.5	13.5
S	.2	.2	6.1	6.9	3.5	4.0	4.2	4.8	4.1	4.6	1.4	1.5	.2	.2	19.8	22.2	15.6
SSW	.1	.1	3.1	3.4	2.2	2.4	2.2	2.5	2.2	2.5	.7	.8	.1	.1	10.5	11.8	15.7
SW	.1	.1	1.9	2.1	.9	1.0	.9	1.0	.5	.6	.1	.1	.0	.0	4.4	5.0	13.4
WSW	.1	.1	1.4	1.6	.4	.4	.3	.3	.2	.2	.0	.0	.0	.0	2.4	2.7	11.1
W	.1	.1	1.2	1.4	.2	.2	.1	.2	.1	.1	.1	.1	.0	.0	1.9	2.1	10.6
WNW	.1	.1	1.2	1.4	.4	.4	.3	.3	.2	.2	.1	.1	.0	.0	2.3	2.6	12.0
NW	.1	.1	1.4	1.6	.5	.6	.4	.5	.4	.4	.2	.3	.0	.0	3.1	3.5	13.8
NNW	.1	.2	1.9	2.1	.8	.9	.9	1.0	1.0	1.2	.5	.6	.1	.1	5.4	6.1	15.4
CALM	1.5	1.7													1.5	1.7	
TOTAL	3.5	3.9	36.7	41.2	16.1	18.1	15.3	17.2	12.9	14.5	4.1	4.6	.5	.6	89	100	13.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 1 / NIGHT

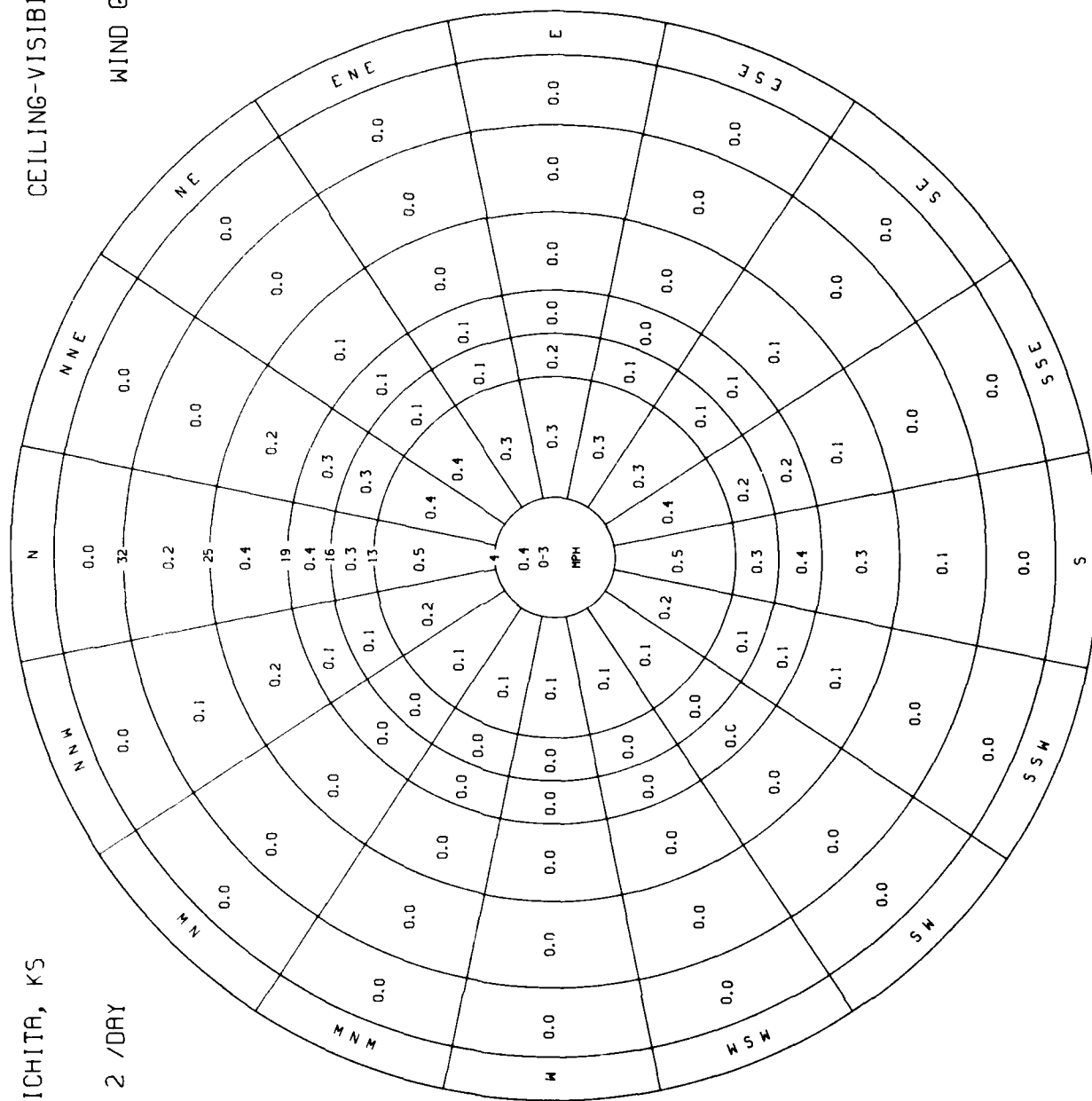
STATION NUMBER: 03928

NO. OBS.: 29611

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.2	.2	4.1	4.7	1.2	1.3	1.2	1.4	1.0	1.1	.4	.4	.0	.1	8.1	9.2	12.8
NNE	.1	.1	2.5	2.8	.7	.8	.8	.9	.5	.5	.1	.1	.0	.0	4.6	5.2	12.3
NE	.2	.2	1.9	2.2	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.1	3.5	10.3
ENE	.2	.2	1.8	2.0	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.0	9.8
E	.3	.3	2.6	2.9	.5	.5	.1	.2	.0	.0	.0	.0	.0	.0	3.5	4.0	8.8
ESE	.2	.2	2.9	3.2	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.9	4.4	9.4
SE	.2	.2	4.7	5.3	.8	.9	.4	.4	.1	.2	.0	.0	.0	.0	6.2	7.1	9.7
SSE	.3	.3	6.3	7.1	1.9	2.1	1.3	1.5	.8	.9	.1	.1	.0	.0	10.5	11.9	11.5
S	.4	.5	9.5	10.7	4.0	4.6	3.4	3.9	2.2	2.5	.4	.4	.0	.0	19.9	22.5	12.9
SSW	.2	.2	3.5	4.0	.7	.8	.5	.5	.3	.3	.0	.1	.0	.0	5.2	5.9	10.4
SW	.2	.2	1.8	2.0	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	2.3	2.6	8.4
WSW	.2	.2	1.4	1.5	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.7	2.0	8.2
W	.2	.3	1.6	1.9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.4	7.7
WNW	.2	.2	2.1	2.3	.3	.3	.2	.2	.1	.1	.1	.1	.0	.0	2.9	3.3	9.8
NW	.2	.2	2.5	2.8	.5	.6	.3	.3	.2	.2	.1	.1	.0	.0	3.8	4.3	10.5
NNW	.2	.3	3.0	3.4	.6	.7	.6	.7	.6	.7	.3	.3	.0	.0	5.4	6.1	12.3
CALM	2.5	2.8													2.5	2.8	
TOTAL	5.9	6.7	52.0	58.8	12.9	14.6	9.7	11.0	6.2	7.0	1.5	1.7	.2	.2	88.5	100	10.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

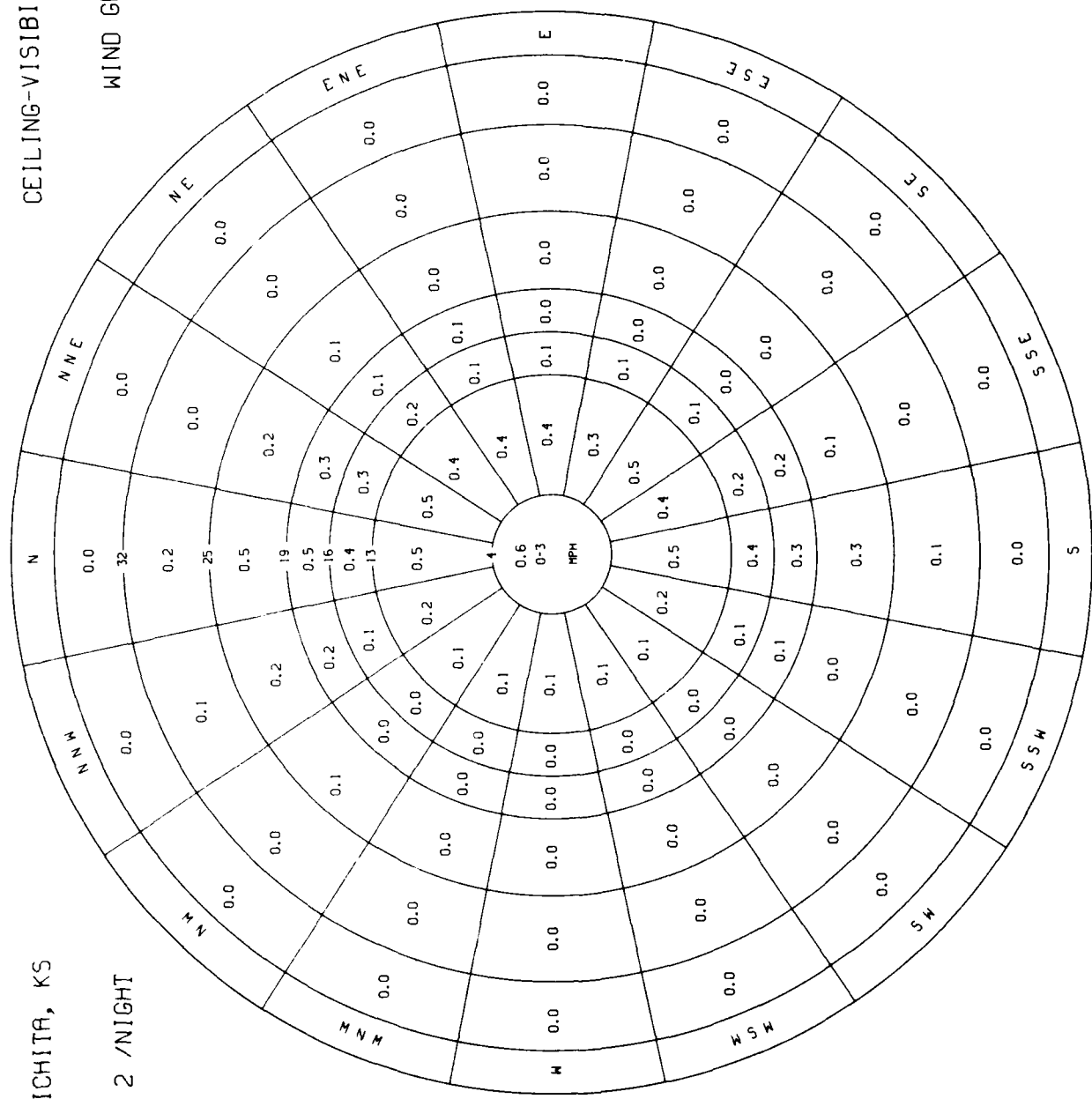
CLASS 2 / DAY

STATION NUMBER: 03928

NO. OBS.: 4318

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	.1	.5	4.3	.3	2.9	.4	3.8	.4	4.1	.2	1.8	.0	.3	1.9	17.4	17.0					
NNE	.0	.0	.4	3.4	.3	2.5	.3	2.7	.2	2.0	.0	.3	.0	.0	1.2	11.0	15.1					
NNE	.0	.1	.4	3.3	.1	1.3	.1	1.1	.1	.6	.0	.1	.0	.0	.7	6.6	12.9					
ENE	.0	.2	.3	2.5	.1	1.1	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.7	11.8					
E	.0	.1	.3	2.6	.2	1.4	.0	.4	.0	.2	.0	.0	.0	.0	.5	4.8	11.2					
ESE	.0	.2	.3	2.5	.1	1.0	.0	.4	.0	.3	.0	.1	.0	.0	.5	4.4	11.1					
SE	.0	.2	.3	3.0	.1	1.4	.1	.8	.1	.5	.0	.0	.0	.0	.6	5.9	12.1					
SSE	.0	.2	.4	3.8	.2	2.2	.2	1.8	.1	1.1	.0	.2	.0	.0	1.0	9.3	13.7					
S	.0	.1	.5	4.8	.3	3.0	.4	3.6	.3	3.1	.1	.5	.0	.1	1.7	15.2	15.1					
SSW	.0	.1	.2	2.3	.1	1.2	.1	1.1	.1	.6	.0	.2	.0	.0	.6	5.5	13.4					
SW	.0	.1	.1	1.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.8	10.0					
WSW	.0	.1	.1	.6	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.9	10.5					
W	.0	.1	.1	.8	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.1	9.5					
WNW	.0	.2	.1	.7	.0	.2	.0	.1	.0	.2	.0	.1	.0	.1	.2	1.6	13.3					
NW	.0	.1	.1	.5	.0	.3	.0	.2	.0	.4	.0	.3	.0	.1	.2	1.9	17.2					
NNW	.0	.2	.2	1.7	.1	.8	.1	1.2	.2	1.6	.1	.7	.0	.3	.7	6.4	17.1					
CALM	.2	1.7													.2	1.7						
TOTAL	.4	3.8	4.2	38.1	2.1	19.5	2.0	17.9	1.6	15.1	.5	4.5	.1	1.0	10.9	100	14.1					

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 2 / NIGHT

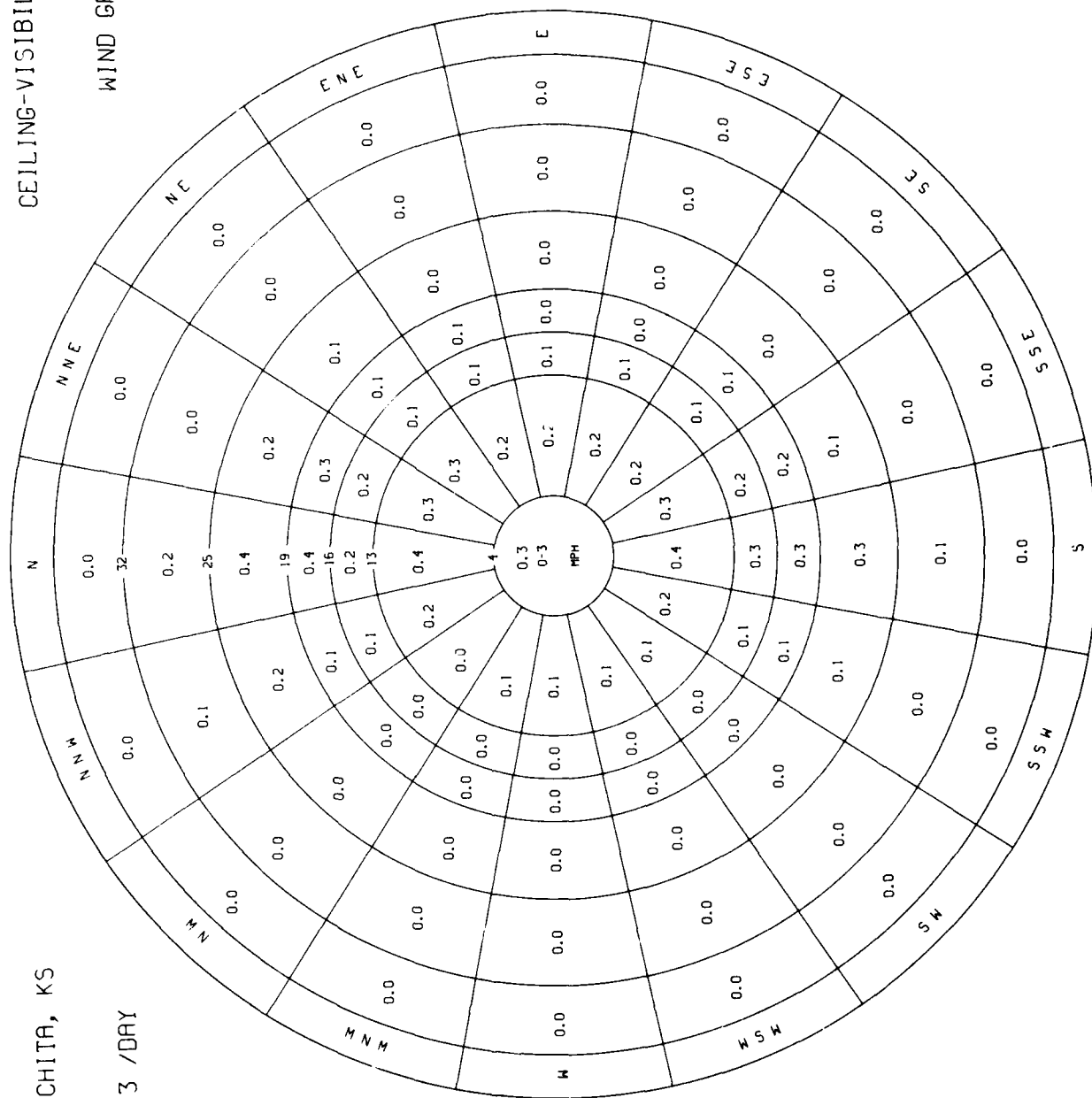
STATION NUMBER: 03928

NO. OBS.: 3857

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	4.3	.4	3.4	.5	4.0	.5	4.4	.2	2.0	.0	.3	2.1 18.6
NNE	.0	.1	.5	3.9	.3	2.9	.3	2.4	.2	1.9	.0	.3	.0	.0	1.3 11.5
NE	.0	.1	.4	3.8	.2	1.8	.1	1.2	.1	.6	.0	.1	.0	.0	.9 7.6
ENE	.0	.3	.4	3.1	.1	.7	.1	.7	.0	.2	.0	.0	.0	.0	.6 5.0
E	.0	.2	.4	3.2	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.5 4.4
ESE	.0	.1	.3	2.2	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.4 3.5
SE	.0	.2	.5	4.0	.1	.7	.0	.4	.0	.1	.0	.1	.0	.0	.6 5.5
SSE	.0	.1	.4	3.6	.2	1.8	.2	1.4	.1	.8	.0	.0	.0	.1	.9 7.8
S	.0	.4	.5	4.5	.4	3.2	.3	2.7	.3	2.5	.1	.6	.0	.0	1.6 13.8
SSW	.0	.1	.2	1.9	.1	.9	.1	.8	.0	.4	.0	.1	.0	.0	.5 4.2
SW	.0	.1	.1	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2 1.4
WSW	.0	.1	.1	.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1 1.0
W	.0	.1	.1	.6	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1 1.0
WNW	.0	.2	.1	.7	.0	.1	.0	.3	.0	.1	.0	.1	.0	.0	.2 1.5
NW	.0	.1	.1	1.0	.0	.4	.0	.4	.1	.4	.0	.2	.0	.1	.3 2.6
NNW	.0	.2	.2	1.9	.1	1.2	.2	1.5	.2	1.7	.1	1.2	.0	.3	.9 8.1
CALM	.3	2.4													.3 2.4
TOTAL	.6	5.0	4.7	40.4	2.2	18.9	1.9	16.4	1.6	13.5	.6	4.9	.1	.8	11.5 100

CEILING-VISIBILITY WIND GRAPH

ICT WICHITA, KS
CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 3 / DAY

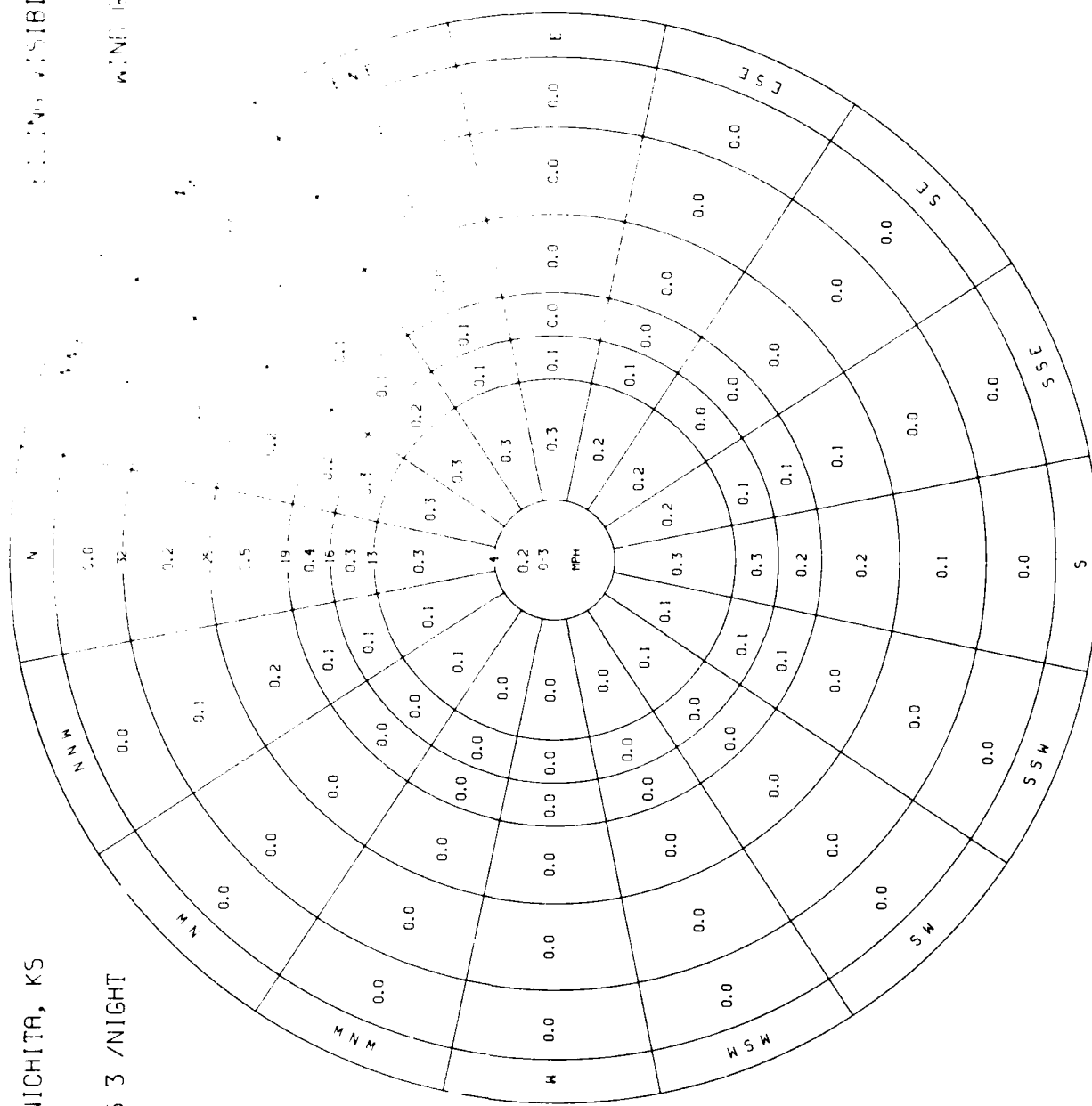
STATION NUMBER: 03928

NO. OBS.: 3505

O I R	SPEED GROUPS (MPH)																HVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.4	4.2	.2	2.8	.4	4.1	.4	4.5	.2	1.9	.0	.4	1.6	18.0	17.1
NNE	.0	.1	.3	3.5	.2	2.8	.3	2.9	.2	2.3	.0	.3	.0	.0	1.1	11.9	15.2
NE	.0	.1	.3	3.2	.1	1.4	.1	1.3	.1	.7	.0	.1	.0	.0	.6	6.7	13.2
ENE	.0	.2	.2	2.5	.1	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.4	4.9	11.9
E	.0	.1	.2	2.6	.1	1.6	.0	.4	.0	.2	.0	.0	.0	.0	.4	5.0	11.4
ESE	.0	.1	.2	2.3	.1	1.0	.0	.5	.0	.3	.0	.1	.0	.0	.4	4.3	11.5
SE	.0	.1	.2	2.7	.1	1.3	.1	.7	.0	.5	.0	.1	.0	.0	.5	5.4	12.6
SSE	.0	.1	.3	3.2	.2	2.3	.2	1.9	.1	1.1	.0	.2	.0	.0	.8	8.8	14.3
S	.0	.1	.4	4.1	.3	2.9	.3	3.7	.3	3.4	.1	.6	.0	.1	1.3	14.9	15.6
SSW	.0	.1	.2	1.9	.1	1.1	.1	1.1	.1	.7	.0	.1	.0	.0	.5	5.1	13.9
SW	.0	.1	.1	1.3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	1.8	9.9
WSW	.0	.1	.1	.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.9	9.5
W	.0	.1	.1	.7	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1	.9	9.1
WNW	.0	.1	.1	.6	.0	.2	.0	.1	.0	.2	.0	.1	.0	.1	.1	1.5	14.0
NW	.0	.1	.0	.5	.0	.3	.0	.2	.0	.4	.0	.3	.0	.1	.2	1.9	17.4
NNW	.0	.1	.2	1.7	.1	.9	.1	1.3	.2	1.7	.1	.7	.0	.3	.6	6.7	17.5
CALM	.1	1.2													.1	1.2	
TOTAL	.3	2.8	3.2	35.8	1.8	20.1	1.7	19.0	1.5	16.7	.4	4.5	.1	1.0	8.9	100	14.5

CONFIDENTIALITY

1945



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1954-1978

STATION NAME: ICT WICHITA, KS

CLASS 3 / NIGHT

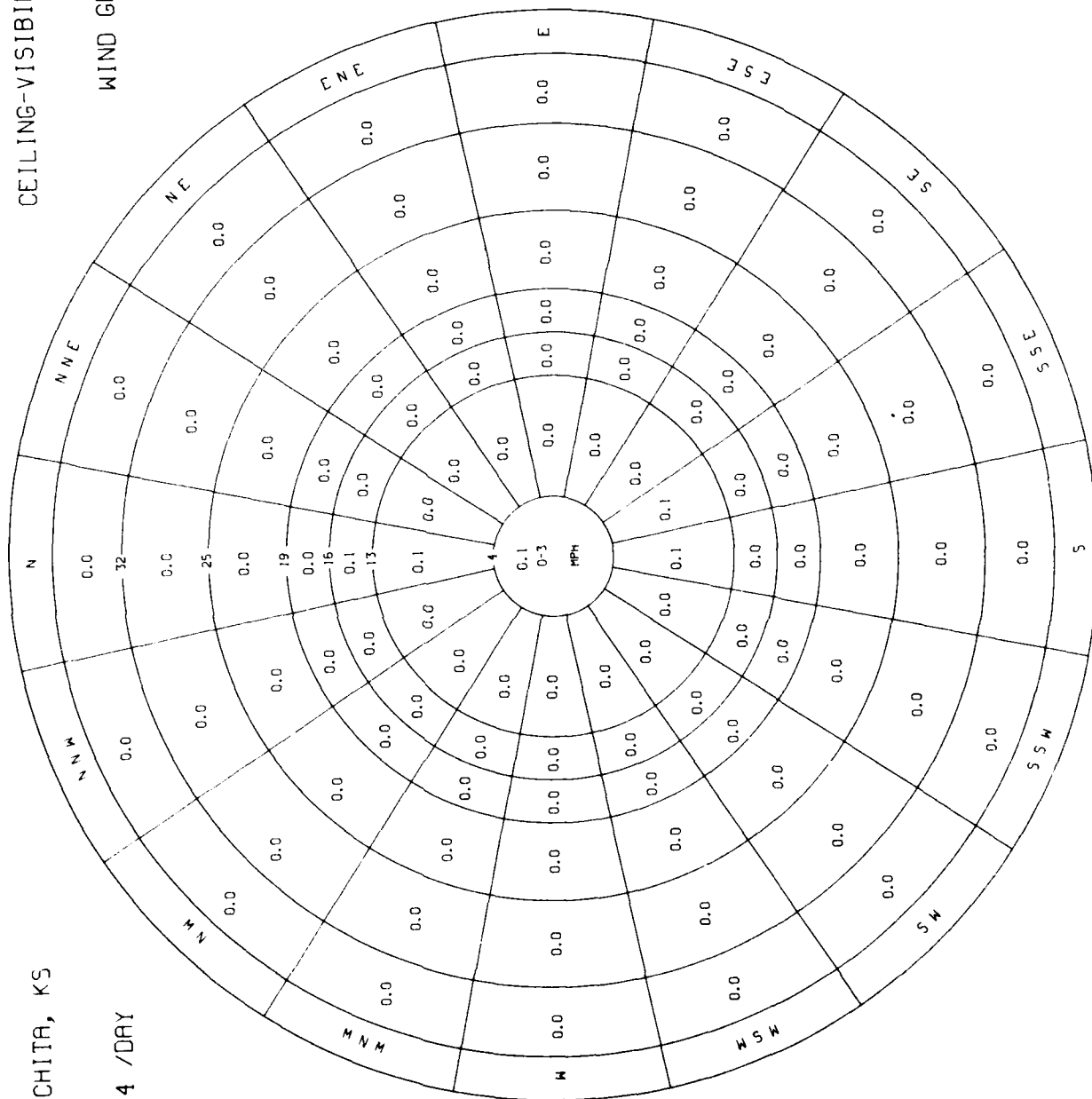
NO. OBS.: 2768

STATION NUMBER: 03928

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.1	.3	3.5	.3	3.9	.4	5.0	.5	5.8	.2	2.4	.0	.4	1.7	21.1	17.8
NNE	.0	.0	.3	4.0	.3	3.5	.2	2.9	.2	2.3	.0	.4	.0	.0	1.1	13.2	14.9
NE	.0	.1	.3	3.8	.2	2.0	.1	1.4	.1	.8	.0	.1	.0	.0	.7	8.2	13.1
ENE	.0	.2	.3	3.1	.1	.8	.1	.9	.0	.2	.0	.0	.0	.0	.4	5.2	11.3
E	.0	.2	.3	3.1	.1	.7	.0	.5	.0	.1	.0	.0	.0	.0	.4	4.7	10.5
ESE	.0	.1	.2	2.0	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.3	3.4	10.9
SE	.0	.1	.2	2.8	.0	.5	.0	.4	.0	.2	.0	.1	.0	.0	.3	4.1	10.9
SSE	.0	.1	.2	2.7	.1	1.6	.1	1.5	.1	1.0	.0	.0	.0	.1	.6	7.0	13.9
S	.0	.4	.3	3.3	.3	3.0	.2	2.7	.2	2.9	.1	.8	.0	.0	1.1	13.1	15.5
SSW	.0	.2	.1	1.2	.1	.7	.1	.8	.0	.4	.0	.2	.0	.0	.3	3.4	13.8
SW	.0	.1	.1	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	8.4
WSW	.0	.0	.0	.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.8	10.6
W	.0	.0	.0	.5	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1	.8	12.1
WNW	.0	.1	.0	.4	.0	.1	.0	.4	.0	.1	.0	.1	.0	.0	.1	1.3	14.0
NW	.0	.1	.1	.7	.0	.5	.0	.5	.0	.6	.0	.3	.0	.1	.2	2.8	16.7
NNW	.0	.0	.1	1.6	.1	1.3	.1	1.8	.2	2.3	.1	1.6	.0	.4	.7	8.9	18.8
CALM	.1	1.1													.1	1.1	
TOTAL	2	2.8	2.8	33.9	1.6	19.9	1.6	19.2	1.4	17.0	.5	6.1	.1	1.0	8.3	100	14.8

ICT WICHITA, KS

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 4 / DAY

STATION NUMBER: 03928

NO. OBS.: 495

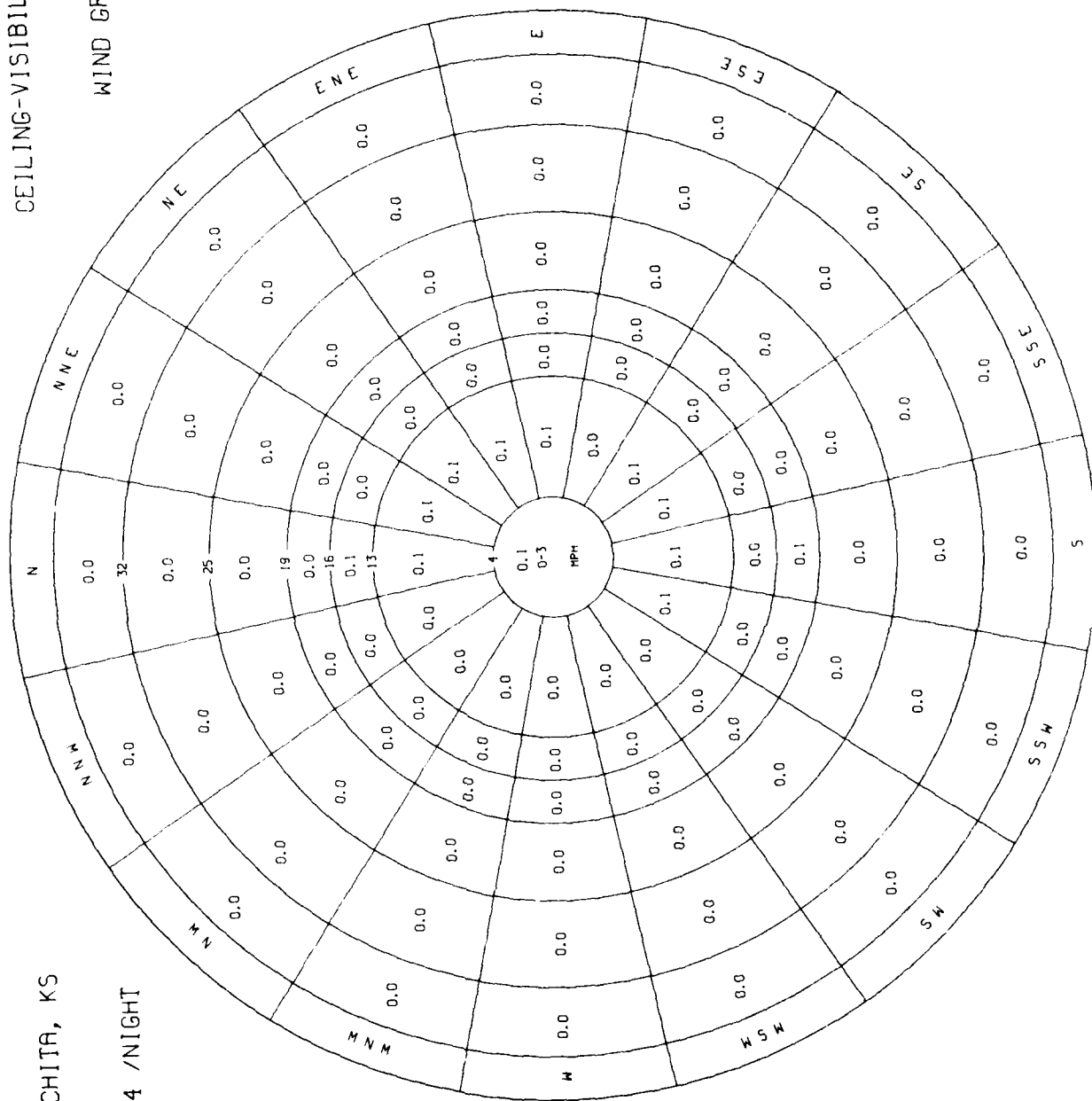
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.1	5.3	.1	4.4	.0	3.8	.0	3.0	.0	1.8	.0	.0	.2	18.6	15.6
NNE	.0	.0	.0	3.0	.0	1.6	.0	2.0	.0	.8	.0	.4	.0	.0	.1	7.9	14.4
NE	.0	.2	.0	3.8	.0	1.0	.0	.8	.0	.2	.0	.4	.0	.0	.1	6.5	11.9
ENE	.0	.2	.0	2.4	.0	.8	.0	.4	.0	.6	.0	.2	.0	.0	.1	4.6	12.8
E	.0	.0	.0	3.2	.0	.4	.0	.6	.0	.2	.0	.0	.0	.0	.1	4.4	10.5
ESE	.0	.2	.0	2.6	.0	1.2	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.2	9.6
SE	.0	.2	.0	3.2	.0	2.0	.0	1.0	.0	.4	.0	.0	.0	.0	.1	6.9	11.9
SSE	.0	.6	.1	6.3	.0	1.4	.0	1.6	.0	.8	.0	.2	.0	.2	.1	11.1	12.4
S	.0	.2	.1	4.6	.0	3.6	.0	3.0	.0	2.2	.0	.0	.0	.0	.2	13.7	14.0
SSW	.0	.2	.0	1.6	.0	1.4	.0	1.6	.0	.4	.0	.4	.0	.0	.1	5.7	14.3
SW	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.2	13.2
WSW	.0	.2	.0	.2	.0	.0	.0	.0	.0	.2	.0	.2	.0	.2	.0	1.0	18.6
W	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	1.6	13.6
WNW	.0	.2	.0	1.0	.0	.2	.0	.0	.0	.0	.0	.4	.0	.2	.0	2.0	14.1
NW	.0	.0	.0	.4	.0	.0	.0	.6	.0	.2	.0	.6	.0	.2	.0	2.0	20.0
NNW	.0	.2	.0	1.6	.0	.8	.0	.8	.0	1.8	.0	.6	.0	.0	.1	5.9	15.9
CALM	.0	2.6													.0	2.6	
TOTAL	.1	5.3	.5	41.2	.2	19.4	.2	16.4	.1	11.3	.1	5.5	.0	1.0	.13	100	13.4

CEILING-VISIBILITY

WIND GRAPH

ICT WICHITA, KS

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1954-1978

STATION NAME: ICT WICHITA, KS

CLASS 4 / NIGHT

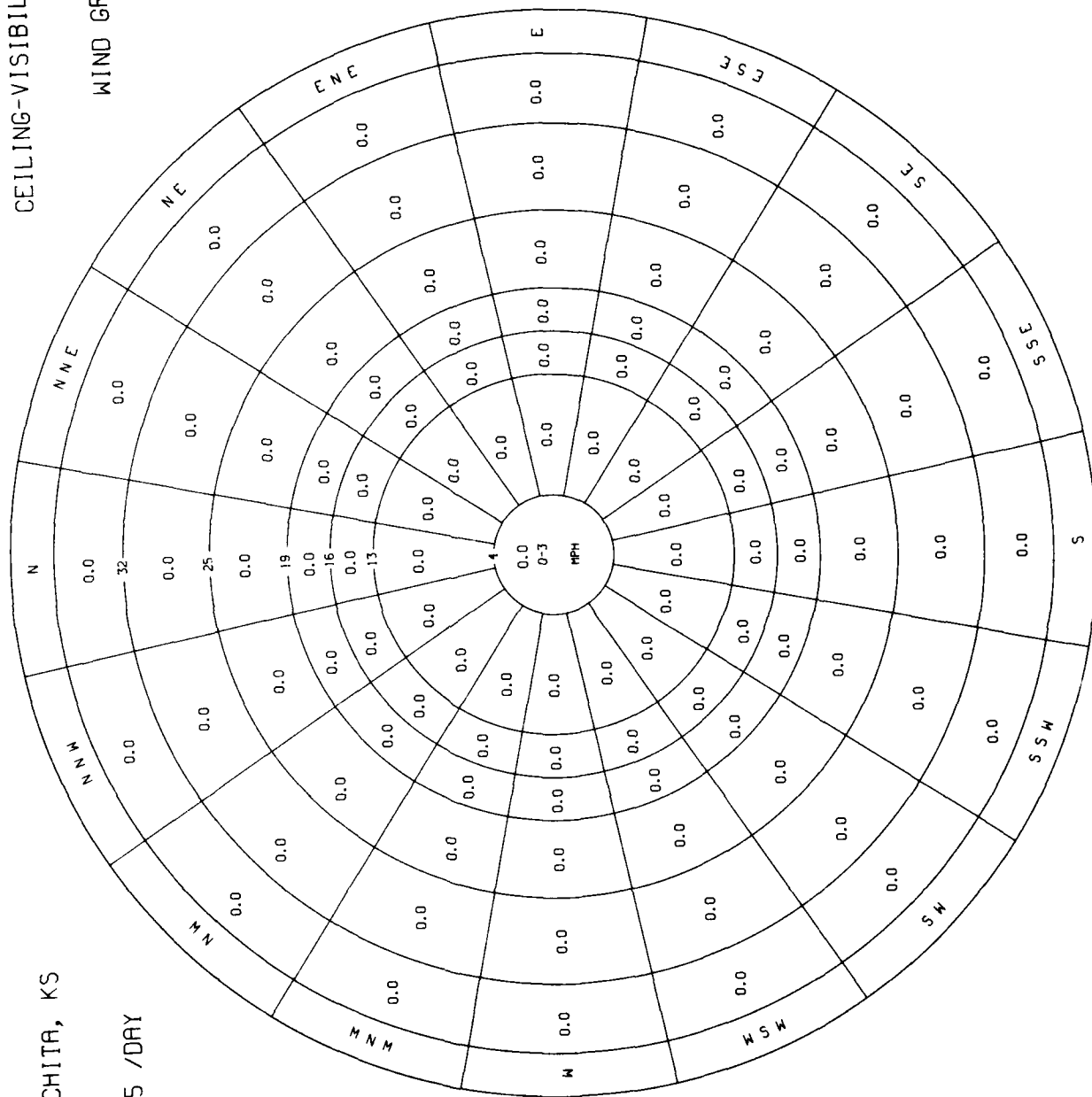
STATION NUMBER: 03928

NO. OBS.: 528

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.1	6.6	.1	3.2	.0	2.3	.0	1.3	.0	1.3	.0	.0	.2	15.2	14.1
NNE	.0	.0	.1	4.0	.0	1.5	.0	1.9	.0	.8	.0	.0	.0	.0	.1	8.1	12.7
NE	.0	.0	.1	4.5	.0	2.5	.0	.8	.0	.0	.0	.2	.0	.0	.1	8.0	11.7
ENE	.0	.2	.1	4.4	.0	1.3	.0	.2	.0	.2	.0	.0	.0	.0	.1	6.3	9.6
E	.0	.0	.1	3.4	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1	4.5	10.4
ESE	.0	.2	.0	3.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.1	4.9	11.0
SE	.0	.2	.1	6.1	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.4	9.5
SSE	.0	.0	.1	4.4	.0	2.1	.0	1.3	.0	.4	.0	.0	.0	.0	.1	8.1	12.0
S	.0	.2	.1	5.5	.0	3.0	.1	3.2	.0	1.9	.0	.2	.0	.0	.2	14.0	13.7
SSW	.0	.0	.1	3.4	.0	1.5	.0	1.1	.0	.4	.0	.0	.0	.0	.1	6.4	11.7
SW	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	10.6
WSW	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	6.7
W	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	9.0
WNW	.0	.0	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.1	9.2
NW	.0	.2	.0	1.5	.0	.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.5	9.8
NNW	.0	.0	.0	2.8	.0	1.3	.0	1.1	.0	.2	.0	.8	.0	.2	.1	6.4	14.5
CALM	.1	3.2													.1	3.2	
TOTAL	.1	4.9	.8	53.4	.3	19.9	.2	13.4	.1	5.7	.0	2.5	.0	.2	.1	6	100
																	11.7

WIND GRAPH

CLASS 5 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1954-1978

STATION NAME: ICT WICHITA, KS

CLASS 5 / DAY

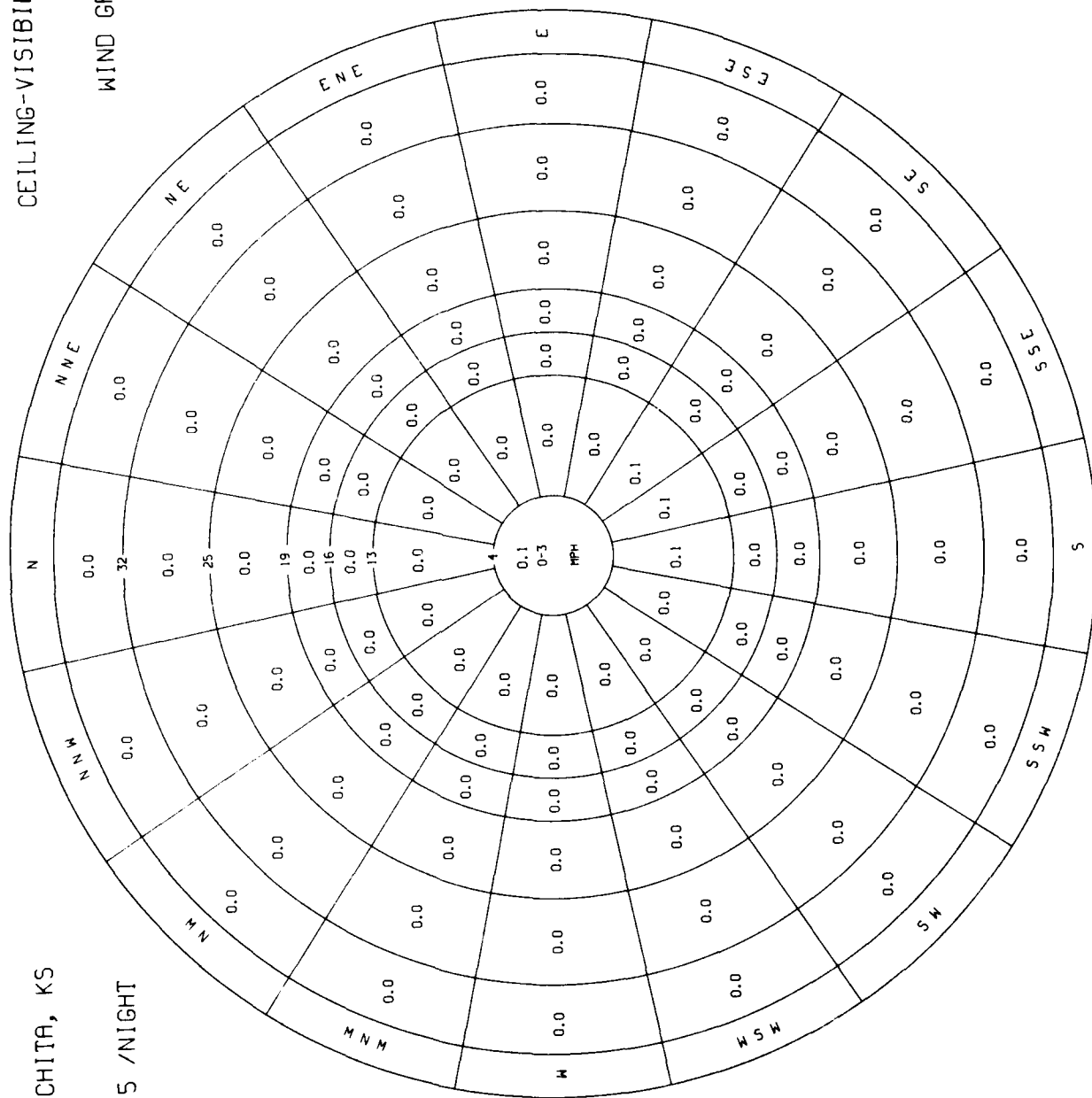
NO. OBS.: 138

STATION NUMBER: 03928

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	4.3	.0	2.2	.0	.7	.0	2.2	.0	1.4	.0	.7	.0	11.6	16.6
NNE	.0	.0	.0	1.4	.0	.7	.0	2.2	.0	1.4	.0	.0	.0	.0	.0	5.8	15.0
NE	.0	.7	.0	3.6	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.7	.0	7.2	12.0
ENE	.0	.0	.0	3.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	8.7
E	.0	.0	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	10.2
ESE	.0	.0	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	3.6	12.8
SE	.0	2.2	.0	5.1	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	8.7	8.6
SSE	.0	.0	.0	6.5	.0	3.6	.0	1.4	.0	.0	.0	.7	.0	.0	.0	12.3	11.9
S	.0	.0	.0	9.4	.0	7.2	.0	2.9	.0	1.4	.0	.0	.0	.0	.1	21.0	12.5
SSW	.0	.7	.0	6.5	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	8.7	11.1
SW	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	10.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	8.5
WNW	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0
NW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.4	13.5
NNW	.0	.7	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.7	.0	.7	.0	3.6	19.8
CALM	.0	2.9													.0	2.9	
TOTAL	.0	8.0	.2	50.0	.1	18.8	.0	11.6	.0	5.8	.0	3.6	.0	2.2	.3	100	12.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 5 / NIGHT

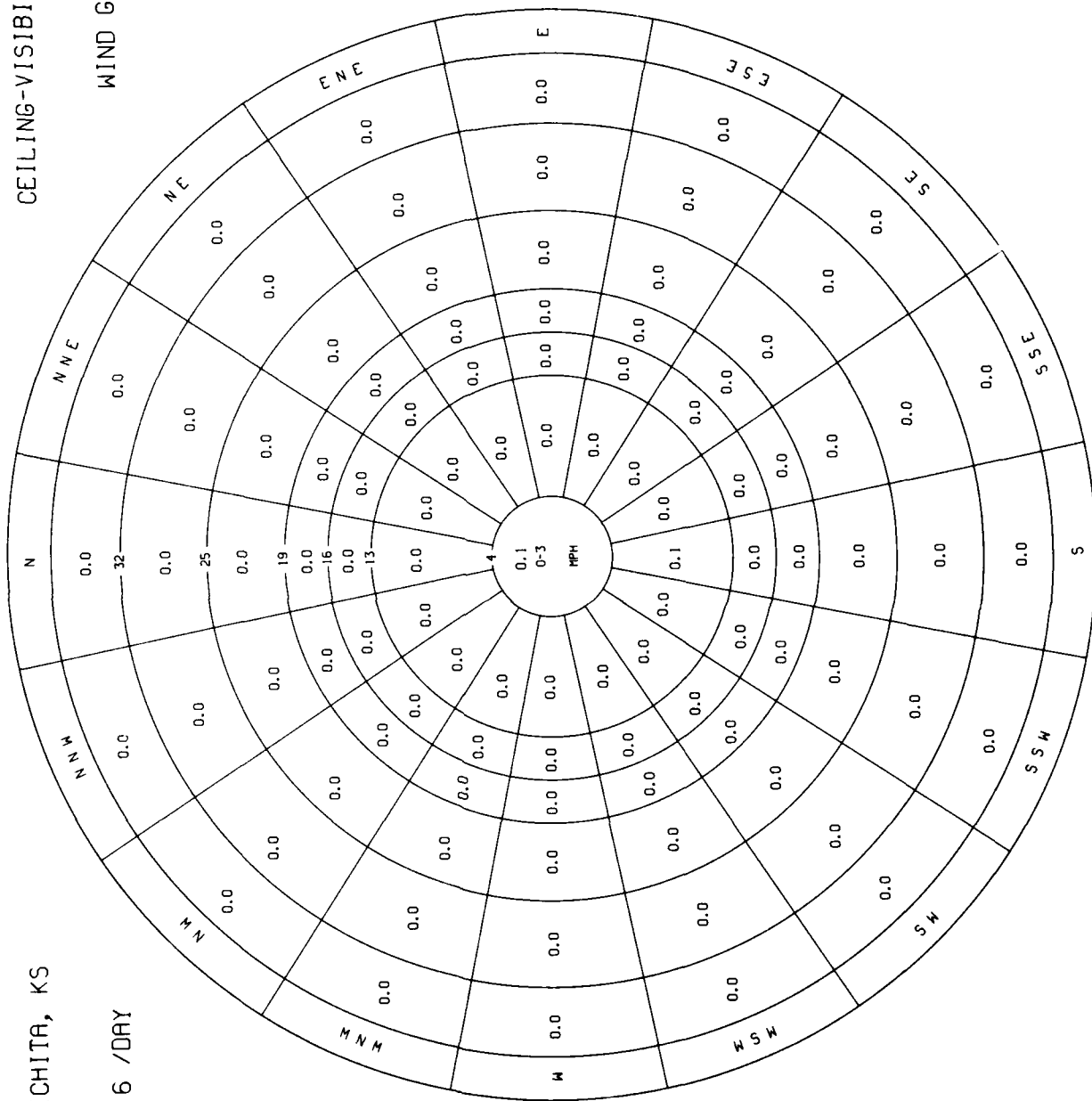
STATION NUMBER: 03928

NO. OBS.: 252

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.0	4.8	.0	2.0	.0	1.2	.0	.4	.0	.4	.0	.8	.1 9.9
NNE	.0	.4	.0	4.8	.0	1.2	.0	.4	.0	1.2	.0	.4	.0	.0	.1 8.3
NE	.0	.0	.0	3.2	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0 4.4
ENE	.0	.4	.0	1.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.4
E	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
ESE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 2.4
SE	.0	.8	.1	9.1	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.1 13.1
SSE	.0	.4	.1	8.3	.0	3.2	.0	1.2	.0	.4	.0	.0	.0	.0	.1 13.5
S	.0	.8	.1	7.5	.0	5.6	.0	2.8	.0	1.6	.0	.0	.0	.0	.1 18.3
SSW	.0	.0	.0	3.2	.0	1.6	.0	.8	.0	.8	.0	.0	.0	.0	.0 6.3
SW	.0	.0	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
WSW	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
W	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
WNW	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
NW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
NNW	.0	.4	.0	3.2	.0	.8	.0	.8	.0	.0	.0	.4	.0	.0	.0 5.6
CALM	.0	4.8													.0 4.8
TOTAL	.1	9.9	.4	56.3	.1	18.7	.1	8.3	.0	4.8	.0	1.2	.0	.8	.8 100

ICT WICHITA, KS

CLASS 6 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ICT WICHITA, KS

PERIOD: 1954-1978

CLASS 6 / DAY

STATION NUMBER: 03928

NO. OBS.: 180

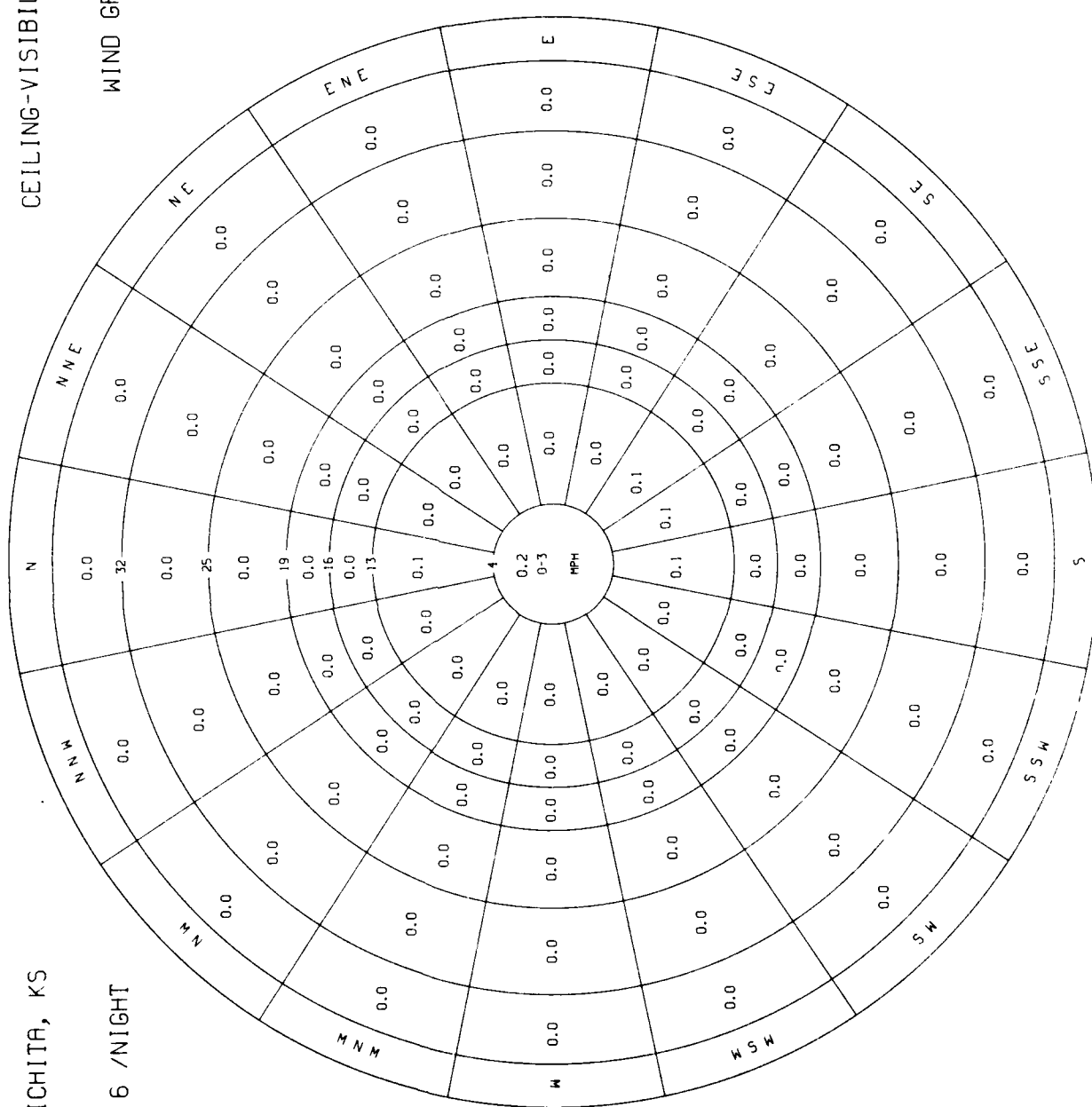
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	3.3	.0	.6	.0	.0	.0	.6	.0	1.7	.0	.6	.0	6.7	17.3
NNE	.0	.0	.0	3.9	.0	.0	.0	.6	.0	.0	.0	.6	.0	.6	.0	5.6	13.5
NE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	7.6
ENE	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.0
E	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.3
ESE	.0	1.7	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	7.0
SE	.0	.6	.0	7.2	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	10.0	10.3
SSE	.0	1.1	.0	7.2	.0	1.7	.0	.6	.0	1.1	.0	.0	.0	.0	.1	11.7	10.0
S	.0	.0	.1	14.4	.0	1.7	.0	2.8	.0	.6	.0	.0	.0	.0	.1	19.4	11.1
SSW	.0	.0	.0	7.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	9.4
SW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.3
WSW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.2
WNW	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.2
NW	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.3
NNW	.0	1.1	.0	2.2	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	4.4	10.5
CALM	.0	8.9													.0	8.9	
TOTAL	1	16.1	.3	64.4	.0	8.3	.0	5.0	.0	2.2	.0	2.8	.0	1.1	.5	100	9.2

CEILING-VISIBILITY

WIND GRAPH

ICT WICHITA, KS

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 101 WICHITA, KS

PERIOD: 1954-1978

CLASS 6 / NIGHT

STATION NUMBER: 03928

NO. OBS.: 309

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.3	.1	6.1	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1	9.1	9.9
NNE	.0	.6	.0	2.6	.0	1.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	4.5	10.0
NE	.0	.3	.0	2.9	.0	.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	4.5	9.9
ENE	.0	1.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.0
E	.0	.3	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.3
ESE	.0	.3	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.0
SE	.0	1.0	.1	7.1	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	9.1	7.9
SSE	.0	.0	.1	6.5	.0	2.6	.0	.3	.0	.6	.0	.0	.0	.0	.1	10.0	10.5
S	.0	1.0	.1	11.0	.0	2.6	.0	1.3	.0	.6	.0	.0	.0	.0	.2	16.5	10.1
SSW	.0	.0	.0	4.5	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.5	9.4
SW	.0	.3	.0	3.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.7
WSW	.0	.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.6
W	.0	.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.3
WNW	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	9.1
NW	.0	.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.7
NNW	.0	1.9	.0	2.9	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1	5.5	7.1
CALM	.1	10.0													.1	10.0	
TOTAL	.2	20.7	.6	63.8	.1	8.7	.0	2.9	.0	2.3	.0	1.3	.0	.3	.9	100	7.9

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NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/8 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)

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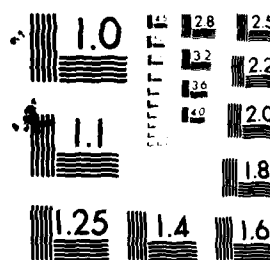
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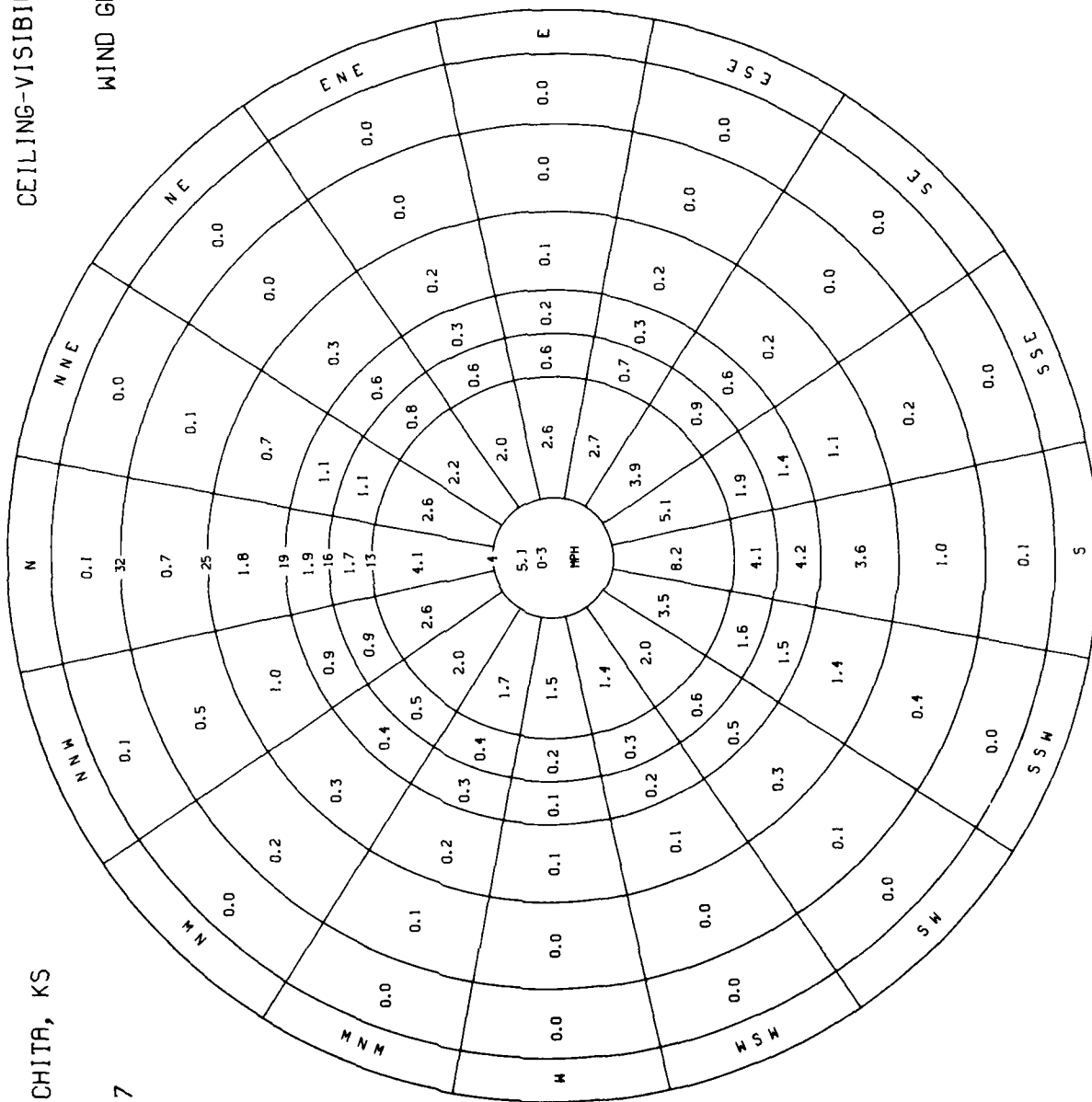
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY

WIND GRAPH

ICT WICHITA, KS

CLASS 7



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